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11 December 2003

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 03/038063 A3

(54) Title: HUMAN SECRETED PROTEINS

(57) Abstract: The present invention relates to human secreted polypeptides, and isolated nucleic acid molecules encoding said polypeptides, useful for diagnosing and treating hematopoietic and hematologic diseases, disorders, and/or conditions related thereto. Antibodies that bind these polypeptides are also encompassed by the present invention. Also encompassed by the invention are vectors, host cells, and recombinant and synthetic methods for producing said polynucleotides, polypeptides, and/or antibodies. The invention further encompasses screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further encompasses methods and compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US02/08277

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 1/00; C07H 21/02  
US CL : 530/350; 536/23.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/350; 536/23.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
GENEMBL\_HTG; PIR\_73; ISSUED PATENTS\_NA; ISSUED PATENTS\_AA

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,174,994 B1 (ELSHOURBAGY et al.) 16 January 2001 (16.01.2001), see the entire document.	1-4, 13-18
X	US 5,858,716 A (ELSHOURBAGY et al.) 12 January 1999 (12.01.1999), see the entire document.	1-4, 13-18

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"Z"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

09 APRIL 2003

Date of mailing of the international search report

03 JUL 2003

Name and mailing address of the ISA/US  
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/08277

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-4 and 13-18 (SEQ ID NOS: 11 and 626)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US02/08277

**BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING**  
This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Groups 1-616, claim(s) 1-4 and 13-18, all in part, each group directed to a peptide of SEQ ID NO: Y, wherein Y correlates to one of those listed in Table 1A, and corresponds to one of the cDNA Clone IDs, respectively. For examples,

If Group 1 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83 of Table 1A, wherein Y is 626.

If Group 2 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83, wherein Y is 1017.

Groups 616-1230, claim(s) 5-6 and 19-20, in part, drawn to an isolated antibody which binds to a protein with SEQ ID NO: Y, wherein Y correlates to one of those listed in Table 1A, and corresponds to one of the cDNA Clone IDs, respectively. For examples,

If Group 145 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83 of Table 1A, wherein Y is 626.

If Group 146 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83, wherein Y is 1017.

Groups 1231-1845, claim(s) 7-10 and 21-32, all in part, drawn to an isolated nucleic acid of SEQ ID NO: X or a peptide of SEQ ID NO: Y, wherein X and Y are values that correlate to those listed in Table 1A, and correspond to one of the cDNA Clone IDs, respectively. For example,

If Group 1 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83 of Table 1A, wherein X is 11 and Y is 626.

If Group 2 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83, wherein X is 402 and Y is 1017.

Groups 1846-2460, claim(s) 11-12, in part, drawn to an agonist or antagonist of the polypeptide of SEQ ID NO: Y, wherein Y correlates to one of those listed in Table 1A, and corresponds to one of the cDNA Clone IDs, respectively. For examples,

If Group 217 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83 of Table 1A, wherein Y is 626.

If Group 218 is elected, this correlates to Gene No. 1, cDNA clone ID H2CBU83, wherein Y is 1017.

The inventions listed as Groups 1-2460 do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The polynucleotides and polypeptides of each invention are unrelated, each to each other. Where, for example, claim 1, items (e) through (f) do not require a polynucleotide of any degree of specificity to a sequence, it is apparent that Birren et al. (2001, Accession No. AC090597) discloses a DNA encoding a polypeptide wherein said DNA renders the claims drawn to the nucleic acid, among the other, not novel, with a sequence identity of 99%. Thus the technical feature of the polynucleotide sequence is not special and the groups are not so linked under PCT Rule 13.1. Additionally the claimed methods produce different products and/or different results which are not coextensive and which do not share the same technical feature.

## Sequence List

&lt;110&gt; Human Genome Sciences, Inc.

&lt;120&gt; Human Secreted Proteins

&lt;130&gt; PS907PCT

&lt;150&gt; US 60/331,287

&lt;151&gt; 2001-11-13

&lt;150&gt; US 60/306,171

&lt;151&gt; 2001-07-19

&lt;150&gt; US 60/277,340

&lt;151&gt; 2001-03-21

&lt;160&gt; 1357

&lt;170&gt; PatentIn Ver. 2.0

&lt;210&gt; 1

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc      660
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gactctagag gat                                     733

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&lt;210&gt; 2

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; Site

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 2

Trp Ser Xaa Trp Ser

1

5

&lt;210&gt; 3

&lt;211&gt; 86

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<221> Primer\_Bind  
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3  
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60  
 cccgaaatat ctgccatctc aattag 86

<210> 4  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4  
 gcggcaagct ttttgcaaag cctaggc 27

<210> 5  
 <211> 271  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5  
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120  
 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6  
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>

<221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7  
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<210> 8  
 <211> 12  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ggggactttc cc 12

<210> 9  
 <211> 73  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9  
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 ccattctcaat tag 73

<210> 10  
 <211> 256  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
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 cttttgcaaa aagctt 256

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 <212> DNA  
 <213> Homo sapiens

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aaa						2703

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&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 12

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&lt;210&gt; 13

&lt;211&gt; 1939

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

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&lt;210&gt; 14

&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (13)..(13)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (300)..(300)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (425)..(425)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 14

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&lt;210&gt; 15

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (341)..(341)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (378)..(378)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (425)..(425)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (450)..(450)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 15

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&lt;210&gt; 16

&lt;211&gt; 888

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

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&lt;210&gt; 17

&lt;211&gt; 1445

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

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aaaaa						1445

&lt;210&gt; 18

&lt;211&gt; 1722

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

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<210> 19  
 <211> 1752  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (356)..(356)  
 <223> n equals a,t,g, or c

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aaaaaaaaaa aa 1752

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<210> 20  
 <211> 1333  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (411)..(411)  
 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <222> (1319)..(1319)  
 <223> n equals a,t,g, or c

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<210> 21  
 <211> 1357  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
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<210> 22
<211> 751
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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atctgaagaa ttttttctaa aaccagagtt tataaaaaata tcaactgatac agcctgcccc 480
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<210> 23
<211> 1963
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (1959)..(1959)
<223> n equals a,t,g, or c

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&lt;210&gt; 24

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

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&lt;210&gt; 25

&lt;211&gt; 2243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (929)..(929)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 25

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&lt;210&gt; 26

&lt;211&gt; 1624

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 26

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&lt;210&gt; 27

&lt;211&gt; 2849

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 27

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <222> (774)..(774)  
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&lt;210&gt; 30

&lt;211&gt; 2534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 30

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aaggaaaaaa	aaaa					2534

&lt;210&gt; 31

&lt;211&gt; 4129

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 31

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&lt;210&gt; 32

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 32

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gccgc						785

&lt;210&gt; 33

&lt;211&gt; 1674

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1649)..(1649)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1663)..(1663)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1665)..(1665)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 33

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&lt;210&gt; 34

&lt;211&gt; 2657

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (179)..(179)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 34

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&lt;210&gt; 35

&lt;211&gt; 2005

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

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&lt;210&gt; 36

&lt;211&gt; 1472

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 36

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&lt;210&gt; 37

&lt;211&gt; 1153

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

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&lt;210&gt; 38

&lt;211&gt; 1959

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

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&lt;210&gt; 39

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (17)..(17)

&lt;223&gt; n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (108)..(108)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <211> 1675  
 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 42

&lt;211&gt; 910

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

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gatagtggat						910

&lt;210&gt; 43

&lt;211&gt; 1280

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

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&lt;210&gt; 44

&lt;211&gt; 953

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

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&lt;210&gt; 45

&lt;211&gt; 821

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

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gatttttggg	cacctgtcat	gtgagcagta	tgaactctac	tttatgtgta	gtcttatccc	420
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agtaactttc	cattgggtatt	ctatgtcttt	taggcttaca	gatacttttt	acactcttac	780
aaaatgtgca	caagaagaag	ctgcagctca	gagctcgtgc	c		821

<210> 46  
 <211> 1368  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
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 agcatcatca tgaccatctc ctccacgctt ctggccctcg tcttgatgcc cctgtgcctg 180  
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 cctgcagctg tttatgtgat agcaattttt atgcctttgg caggctacgc ttcaggttat 480  
 ggttttagcta ctctcttcca tcttccaccc aactgcaaga ggactgtatg tctggaaaca 540  
 ggtagtcaga atgtgcagct ctgtacagcc attctaaaac tggcctttcc accgcaattc 600  
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 aaagcataat tgagtttaat gtaattgttg taaaaaaaaa agtgtgcttg ctctacttaa 1260  
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 aataaggaaa tatagtattt gtcaaaccag tatcagagaa aagttaca 1368

<210> 47  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 47  
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 cctcaggccc tgcccgcttc ctgtccactg cccctcccc atccccagcc cagccgaggg 180  
 aatcccgtgg gttgcttacc tacctataag gtggtttata agctgctgtc ctggccactg 240  
 cattcaaatt ccaatgtgta ctccatagtg taaaaattta tattattgtg aggttttttg 300  
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 aacgttatat aggaacaaaa aaaaaaaaaa aaaaaaaaaa aa 402

<210> 48  
 <211> 981  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
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 cccatgggca actgccaggc agggcacaa cctgcacctg gtctggccca ccccccacct 180  
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<210> 49
<211> 1038
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

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<400> 49
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atctttcaat aacttttagt aactataatg ttaagttgta ccagtggcag tcttatatag 180
taaatggcag ctgacagcat gaaaataaca tatctaatat tttgtgacta tcttattagg 240
aaaatcagag aatttcaaaa ccttgtagt ttttagggta tagtcacatt ttataaatgt 300
gcggtatatt tatacatgat ttgacgtttg tgwaaatatt ttccctggac ttttatttta 360
gatgagatct acagtgtagg caaacttata taatctgtca actccattag tgtcatagtc 420
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acatggtgaa acgttgtctc tactaaaaat acaaaaatta gacaggcgtg gtggcacaca 900
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aaaaaaaaaa aaactcga 1038

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<210> 50
<211> 537
<212> DNA
<213> Homo sapiens

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<400> 50
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ccaggacacg gccaagagtc cccaccgcac caagttcacc ctgtccctcg acgtcccccac 480
caacatcatg aacctctctc tcaacatcgc caaggccaag aacctgcgtg cccaggc 537

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<210> 51
<211> 843
<212> DNA
<213> Homo sapiens

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<400> 51
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ttg						843

&lt;210&gt; 52

&lt;211&gt; 2008

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

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taccagtacg	ggcgcaagca	aaatctcg				2008

&lt;210&gt; 53

&lt;211&gt; 1160

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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 <222> (325)..(325)  
 <223> n equals a,t,g, or c

<400> 53  
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 aaaaaaaaaa aaactcgag 1160

<210> 54  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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 ctatggtgac cgaggacttg tgccgagcac cagacgggaa gaaaggggag gcaggaagac 180  
 ctggcagacg ggggcccggca ggcctcaagg gggagcaagg ggagccgggg gccctggga 240  
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 ccggcaaggt gggctaccga gggcccagcg gccccctcgg agcccgtggc atcccgggaa 360  
 ttaaaggcac caagggcagc ccaggaaaca tcaaggacca gccgaggcca gccttctccg 420  
 ccattcggcg gaacccccca atggggggca acgtggtcat cttcgacacg gtcacacca 480  
 accaggaaga accgtaccag aaccactccg gccgattcgt ctgactgta cccggctact 540  
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 caaggggcca ggtccgacgc tccctgggct tctgtgacac caccaacaag gggctcttcc 660  
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 tggctctgag agccccagga ctggctgccc cgtgacacat gctctaagaa gctcgtttct 960  
 tagacctctt cctggaataa acatctgtgt ctgtgtctgc tgaaaaaaaa aaaaaaaaaa 1020  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1061

<210> 55  
 <211> 920  
 <212> DNA  
 <213> Homo sapiens

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 aaacagtgtc gcctgcctcc tgtgggggaat gcaggatggg gcaatgccct ggcagcagg 180  
 tcttgcttca gctgatgcaa ctgtggctgc tcctgtgtgc acagatcatg tgcctggaag 240

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caaaaaaaaa aaaaaaaaaa 920

```

&lt;210&gt; 56

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

```

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gatgaccacc gccttgtctt ttatggtaat cactgttctt tgggttttat tactgcattt 180
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attactgcat gcagctcttt gatttgtgat tgttttgctc taaggctgtg aagggtcatc 300
catgttttgc atatagtctt tttattgtca ttgccataga gtaaatcatt gtatgaatat 360
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ctctgtacat tcttgatat gtaccttggt gcacatatgt atgtttttct agagtatata 480
cagtgccatg ggattgctga attaaaagg tttgtatatct tatactagaa gataataaaa 540
acttttctct atggattctg ccaattcaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg 600
a 601

```

&lt;210&gt; 57

&lt;211&gt; 2229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2227)..(2227)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 57

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<210> 58
<211> 1554
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (695)..(695)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (874)..(874)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1190)..(1190)
<223> n equals a,t,g, or c

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aagtcaccat gccctgtttg scagcaagkt ttawackgct ctttttggtg gggawwtkct 1080
maggtwcagt gatagagaac atgkagttgt ggtgggawac agtggctyat gactgtatcc 1140
gcactttggg aggctgaggc aggaggattg cttgaggctg agagttgagn acaggcctgg 1200

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gcaacatagc aagacacctt ctctaaaatg aaaaaaatta gctggatgtg gtgtcatgta 1260
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tgggtgtggt ggcatgtacc tgtagtccca gttacttggg aggctgagac aggaggattg 1440
cttgagccag gggtttgagg ctgcagtgag ctatgactgc tcccctgcac cccaggctgg 1500
gtgacagagt gagaccagct ctctaaaata aaaaaaaaaa aaaaaaaact cgta 1554

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<210> 59

<211> 427

<212> DNA

<213> Homo sapiens

<400> 59

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aaaaaaaaa 427

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<210> 60

<211> 1276

<212> DNA

<213> Homo sapiens

<400> 60

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<210> 61

<211> 2084

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2075)..(2075)

<223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2083)..(2083)  
 <223> n equals a,t,g, or c

<400> 61  
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<210> 62  
 <211> 1765  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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&lt;210&gt; 63

&lt;211&gt; 1016

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

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&lt;210&gt; 64

&lt;211&gt; 1430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

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&lt;210&gt; 65

&lt;211&gt; 2494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

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<210> 66  
 <211> 1630  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (527)..(527)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (546)..(546)  
 <223> n equals a,t,g, or c

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 atgggggtct tttaatgacc agaagttctt agttttaaaa tagtccagtt tatccatttt 180  
 taaattgtta gtgctatttg tgtctgctt gagagatttt tgcctactgc aagggtcaca 240  
 agatgttttc ctctaaaagc cttttgggtt tggccttttg ttttagatct gcagctcatc 300  
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 ccgtaacaaa ataccataac ctgggtgggt tagactacag aaatgtagcg ctcacagytc 480  
 tggaggctgg aaggccagga tcaagacacc agcagattcg gtgtctngtg aggaccact 540  
 ttgtgnttca tagatgtcac cttcttgctg tgtccagtg gtgraagggg caaactagct 600  
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 cgtaacaatc 1630

<210> 67  
 <211> 967  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 cggggggtct gggggccctc ctgggggtcc ttgtggtgg acttgccacc catgaagctt 180  
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aaaaaaa						967

<210> 68  
 <211> 885  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (233)..(233)  
 <223> n equals a,t,g, or c

<400> 68	
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tacaaccacc	ccagcagggtc tccagttcct gccagggttag tgtggatggc ccagcaccat 180
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tcaggagctc	tgccgtgtga agtgtgtcga gcagttctcc tcacatgtct acgcaaaatc 300
tctggctccc	tgtgtgtctg agcccaacag acacactgag cacaggagtt ggctctcagc 360
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tgtccaactg	tccaaccttt acgtaattgg catcccagga ggagaagcaa gagtgaatgg 480
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gaaaaccaaa	caccatgtgt tctcactcat aggtgggaat tgaacaatga gatcacttgg 660
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gatagcatta	ggagatatata ctaatgtaaa tgacgagtta atgggtgtca gcacaccaac 780
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aagtataata	aattaaaatt aaaaaaaaaa aaaaaaaact cgtag 885

<210> 69  
 <211> 790  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (55)..(55)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (76)..(76)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (112)..(112)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (120)..(120)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (137)..(137)  
 <223> n equals a,t,g, or c

<400> 69  
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 cagtgagcgc aacgcantta aatgtgagtt agctcactca ttagcacccc aggctttaca 180  
 ctttatgctt cgggctcgta tgttgtgtgg aattgtgagc ggataacaat ttcacacagg 240  
 aaacagctat gaccatgatt acgccaagct ctaatacgac tcactatagg gaaagctggt 300  
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 aatgtacagt tccttctgaa gcaagcaaca tcagcagcag cagcagcagc agcaccaattc 720  
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 aaaaaaaaaa 790

<210> 70  
 <211> 1262  
 <212> DNA  
 <213> Homo sapiens

<400> 70  
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 tttctcgtga agcaagactt ctaaattatg gctataatat cttttgaatt gttgttctta 180  
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 gaacttgctg gagtaataga gggaaaacct ctgcctgatt ctaaatcaga tctttgtcct 360  
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 agataacatt ttagacataa tatttgtaaa catcttgact tatttcagca ttttcctttt 480  
 ttgtgtatct tcagagagtt tgttgaaagt agcaatttcc aagtaatttt aaattattga 540  
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 ttttgattaa aataaagaac attcccaaag aacagtttgt tgcaaaaaaa aaaaaaaaaa 1262  
 aa

<210> 71  
 <211> 1343  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
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&lt;210&gt; 72

&lt;211&gt; 1089

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (353)..(353)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (528)..(528)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 72

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tcggtctgcc	ccgtccggtc	tctggggcca	aggctgggtt	tccctcatgt	atggcaagag	120
ctctactcgt	gcggtgcttc	ttctccttgg	catacagctc	acagctcttt	ggcctatagc	180
agctgtggaa	atttatacct	cccgggtgct	ggaggctggt	aatgggacag	atgctcggtt	240
aaaatgcact	ttctccagct	ttgcccctgt	gggtgatgct	ctaacagtga	cctggaattt	300
tcgtcctcta	gacggggggac	ctgagcagtt	tgtattctac	taccacatag	atnccttcca	360
acccatgagt	gggcgggtta	aagaccgggt	gtcttgggat	gggaatcctg	agcgggtacga	420
tgccctccatc	cttctctgga	aactgcagtt	cgacgacaat	gggacataca	cctgccaggt	480
gaagaaccca	cctgatgttg	atggggtgat	aggggacatc	cggctcancg	tcgtgcacac	540
tgtacgcttc	tctgagatcc	acttcctggc	tctggccatt	ggctctgcct	gtgcactgat	600
gatacataata	gtaattgtag	tggtcctctt	ccagcattac	cggaaaaagc	gatggggccga	660
aagagctcat	aaagtgggtg	agataaaatc	aaaagaagag	gaaaggctca	accaagagaa	720
aaaggctctct	gtttattttag	aagacacaga	ctaacaattt	tagatggtaa	ggttcacaaa	780
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gagacaaaag	tcttctatta	gtcttatgga	tagctcctcc	ttgagtgtat	tttgtgcaaa	960
agattaagaa	gctggactct	actgccatta	aagctgagag	aatcctaagg	ttaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa						1089

&lt;210&gt; 73

&lt;211&gt; 1254



<212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1036)..(1036)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> misc\_feature  
 <222> (1069)..(1069)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> misc\_feature  
 <222> (1100)..(1100)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> misc\_feature  
 <222> (1165)..(1165)  
 <223> n equals a,t,g, or c

<400> 73  
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 tttctctac cagtaccttg cccacacccc ctacagcccg cagcctccac cctaccatga 180  
 gctttcatct tacacctatg gtgggggagc tgccagcagc cagcatagtg agggcagccg 240  
 gagcagtggg tcgacacgga gtgatggggg ggcagggcgc acggggaggc ccgaggagcg 300  
 ggcccccgag tccaagtccg gcagtggcag tgagtctgag ccctccagcc gagggggcag 360  
 ccttcggcgg ggtggggaag caagtgggac tagcgatggg ggccctcctc catccagagg 420  
 ctcaactggg ggtgccccta atctccgagc ccaccaggg ctccatccct atggaccgcc 480  
 ccctggcatg gccctcccct acaaccccat gatggtggtc atgatgcccc cacctccacc 540  
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 tctttgtgga tgttatgtag cccactgtgg ggccaggctg ggccggggcg tcctggtgtg 720  
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 cccttcctc aggggtagac aagggacctt tgattatatt tagctttgtt tttttataag 900  
 cctttttggg gggttaaaata gagtttctta catttttggg acttttttaa taggcatttc 960  
 ctcttttata tgaagaattc ccatccattg ggccctttt aaccccagaa tgtgacctcc 1020  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1254

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 <211> 875  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> misc\_feature  
 <222> (872)..(872)  
 <223> n equals a,t,g, or c

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ggtgcagctc agcaccccc cttatgcaga ctgggagggg gtcgggcagt cccctcagcc 300  
acgaggacc cttatcatgt tttaccacc ttgtcccttt tttcccatt tgtgctttt 360  
tgggtgcccc acagtcaagg ccaacggggg cttcccctgc tctgagatgt tgggagaaag 420  
gcggtctctg gaaccttccg tgggacccgt aagtggctgt ccagaaaggc gggagggtgg 480  
gcacggggca cggggggcag ctggggtcgt cgttaagggt cacgcatccg tacagttgaa 540  
tttcttttct cttatcatgt tttaccacc ttgtcccttt tttcccatt tgtgctttt 600  
catttttttc cttggcaaat gtaaaactcag cctttcattc atgacgtgtg aaatttcagt 660  
ttctctggag ttgttcagac ggctggggaa ccacgcctga aactcaggta ataggaggaa 720  
aaaaaaaaa cttaaaaaaa tttttaaaaa acataaaact actctctacc tctgctggsc 780  
cagcctgtct cgcctggcc gggcagggt ggctgtaac aatttcagtt ttcgcagaa 840  
attcaggtat taaaaggaaa aaaaaaaaaa anggg 875

<210> 75  
<211> 320  
<212> DNA  
<213> Homo sapiens

<400> 75  
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carrgcatg ctgtcgaggg cttctgcaa ttgcagrcgt gcttcgcccgt cttgttcgtg 180  
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gcgcgcttcg tcctgcaaca 320

<210> 76  
<211> 1283  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n equals a,t,g, or c

<400> 76  
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gaagctgggg gatgaccca aggtccgcga attgatcaag acggtacgcg gcgaaggcta 120  
cctgttcgac gcccggaata tcggttgatg cgcgcgccct tcaacacgct gttcgggcca 180  
ctgttcggcc tgttgctggg ggcgattgtg ctggcccatg tgctggcggt cttctggttc 240  
caccactacg gcccgccgac accacccgcg gcggccttcg tcgaacaacc agatggcagc 300  
ctcacgccct tgcgcaaac gcctcgcccc tgggtcggcg gcccggtggt gccctgaca 360  
tttcaattta tctcgtgat catcgtgccc tggtaacggc ccaaactgct gagccggcca 420  
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cgcacccgcg tctcgcgcct caagtgcgc ctggaacaaa tcgaagacc caagctgcaa 660  
ggccagatgc gccaggacct ggacgacatg atcgccatgc tcgatgccac cttgagctac 720  
ctgcacgaac agcgaccag cgagacacgg cattggctcg atgtacaggc gttgggtgaa 780  
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ggtgggttga cggcggtgat gtggttgcgc aggggttaag cactccatt tacctgacgc 1200

gccgcgatcc aaatgtggga gctggcttgc ctgcgattgc gcagtgtcag tcgatgaagt 1260  
gttggctggc ccaccgctat cgc 1283

<210> 77  
<211> 710  
<212> DNA  
<213> Homo sapiens

<400> 77  
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agccaggctg agaaaacagt tactcacatt gagcagttag tgaccactag gtgggcattt 180  
gttcatagct gcatggagaa caagtgccca tatacatctt tctgctgatg cagcctctaa 240  
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atagcgtaac tatctacgcc tgtgacagag aggaaaactg tatggatata agatatcttt 360  
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gaatcgcttg aagccaggag ttggagattg cagttagcca agatcatgcc acttacttcc 660  
agcctggaca gcagagtggg acttcttctt aaaaaaaaaa aaaaaaaaaa 710

<210> 78  
<211> 1540  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (651)..(651)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1124)..(1124)  
<223> n equals a,t,g, or c

<400> 78  
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aaggtgtcag gaaggtcatg ctctctccaa agtctccaa gatgtccctt ccttgccctc 180  
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cctttcctac aaggacatta gtcactggat tatgacacag ctcatcttaa ctggattata 360  
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<210> 79  
 <211> 3061  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2755)..(2755)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2849)..(2849)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2919)..(2919)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2983)..(2983)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2987)..(2987)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2998)..(2998)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (3027)..(3027)  
 <223> n equals a,t,g, or c

<400> 79	
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a						3061

&lt;210&gt; 80

&lt;211&gt; 1421

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 80

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&lt;210&gt; 81

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 81

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&lt;210&gt; 82

&lt;211&gt; 3447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 82

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&lt;211&gt; 3037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 83

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&lt;210&gt; 84

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 84

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&lt;210&gt; 85

&lt;211&gt; 1932

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

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&lt;210&gt; 86

&lt;211&gt; 3436

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

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&lt;211&gt; 1256

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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 <212> DNA  
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<210> 89  
 <211> 2687  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

&lt;400&gt; 89

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&lt;210&gt; 90

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

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&lt;211&gt; 986

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 91

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&lt;210&gt; 92

&lt;211&gt; 1635

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (85)..(85)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 92

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&lt;210&gt; 93

&lt;211&gt; 4893

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

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&lt;210&gt; 94

&lt;211&gt; 1353

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 94

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&lt;210&gt; 95

&lt;211&gt; 2504

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

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&lt;210&gt; 96

&lt;211&gt; 1655

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 96

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&lt;210&gt; 97

&lt;211&gt; 6297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 98

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&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 102

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&lt;213&gt; Homo sapiens

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&lt;210&gt; 107

&lt;211&gt; 2803

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 107

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&lt;210&gt; 108

&lt;211&gt; 961

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 108

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&lt;210&gt; 109

&lt;211&gt; 2181

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (5)..(5)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 109

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&lt;210&gt; 110

&lt;211&gt; 2207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 110

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 <212> DNA  
 <213> Homo sapiens

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<210> 112  
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 <212> DNA  
 <213> Homo sapiens

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 <222> (26)..(26)  
 <223> n equals a,t,g, or c

<220>  
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&lt;222&gt; (696)..(696)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 112

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&lt;210&gt; 113

&lt;211&gt; 3533

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (44)..(44)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 113

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&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

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&lt;211&gt; 2067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 115

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&lt;211&gt; 867

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

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&lt;211&gt; 1558

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

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<222> (1015)..(1015)

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<223> n equals a,t,g, or c

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

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agtttatcag	aaaagcctta	tatttttagt	tggtccacat	tttgaaagca	aaaaatatat	1920
atttgatata	cccttcaatt	gccaaatttg	atatgttgca	ctgaagacag	accctgtcat	1980
atattttaatg	gcttcaagca	ggtacttctc	tgtgcattat	agaatagatt	ttaataatct	2040
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&lt;210&gt; 120

&lt;211&gt; 1021

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 120
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cccaagtccc ggcgagccct aactatccag gagatcgctg cgctggccag gtcctccctg      180
catggkatgc agcccctccc atgtttctgg ccactttgtc ctttctcctc ccgtttgcac      240
atcccttttg aactgtttcc tgtgagtaca tgctggggtc tcccctttct tcccttgctc      300
aggtgaatct cagccccttc tcccacccaa aggttcacat ggatcctaac tactgccacc      360
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cccagggccg agtgggtcac ctcatgtagt ggaagggtg gagcaagccg agtgactcam      540
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ggtcttcggt ggatggcgag gactccactg atgactccta tgatgaggac tttgctgggg      720
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gggtgggaaa tgagcagaca gaaatggatt cgttcctttc ccacaggtgc tgaggcttct      960
ctgcctgtct gcacagttgt gccttgacgt cctcaaaaaa aaaaaaaaaa aaaaaactcg     1020
a                                                                                   1021

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<210> 121

<211> 832

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (827)..(829)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (831)..(831)

<223> n equals a,t,g, or c

```

<400> 121
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ctcactgagt ttacttgccc tattactatt tttttttttt aagatcttct gtctcttgtt      120
tttgttttat cccttacctg atgaaagtga acatttctag tggagaaaga agatcacagt      180
tctctaatat gggcattaag agaggggtac agctagaggg gaggtgaaaa cctgcctcca      240
ctggggtgaa aaacagtgtg ctgaggtttc agccagtgat tacactgggt aatcaaccag      300
tcccatgttt cacaaaggag ttgtaatgat taacagttca ggtatgctty tgaggaaatc      360
taattgagac ctttggaata tagcattgtt atgaatggtg tgggtgttac ccctggaggg      420
gaaaaggcta ggaaaaacat ttttaacttt caagtgtatt taaattaaac tccaaatgtt      480
tcagtgtgct ttactggaga ctgcctgagt ttggaattca aatattgtaa ccaaattact      540
ccaggtttct gaactaaaat gatctattga tgttttctca agtatagatc acagagtaag      600
aaaagaggaa atcaagtctg gtttatgaca aacttttttc catgttaaca ttggacccaa      660
agatgtttam aagagctttt tactactgtg agagraccag cgtgatgtga agacaacgaa      720
cattttaaga agtttgacta gtagacattt cgtttaagtc ttttgagggg tcttggttga      780
caaccacaaa ttttattgtg gctccccagg ctggggagaa gtggaannnc na              832

```

<210> 122

<211> 734

<212> DNA

<213> Homo sapiens

<400> 122

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ggcacgagtt aaaaacgaat tgtagttgtt tttcttcatt taaaatggat ctgttgagg      60
ttatgtgtgt atgttgtagt tttattgcag ccacaataat tttaccaag tttcacata      120
ggcagtttag ctttacttaa tatcaagaca agtgaaaaaa tattggcatc gatgaaaccg      180
ataacattgg cctcattgga tttctttacc cattcacagt gtaaagaagt taccttcatg      240

```

```

ctttcattgt acctgcaggc ctgtgggctt gtacagtaga taattaattt ctaaaaagaa 300
cagctgcccc ttttcttcct aggttaggtt atatcttcat aatcacaaga attagtgatg 360
gcaaaaataaa attttgctta tgaatctttt acattgttta tatatgatta atatcatcat 420
atatattttc tgtattaagc tcatttggct tcatttaagc tgtatactta gtcatatatc 480
tttcattagt tctatggata tgagcagatc cctttactgg agcccagtat gtgctgtgtg 540
agttagaagt cattcttgct gagaagggtga ataggtaggg atttgccttg ttttgtaagt 600
ctacaatttg ccaagagtaa ataacactgg accagctgta aaagtaaaca gtgtgtttat 660
gcattgagat actaaagcat ttaagaaaaa attaaaagat ctcttttggt taaaaaaaaa 720
aaaaaaaaaa aaaa 734

```

```

<210> 123
<211> 685
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (678)..(679)
<223> n equals a,t,g, or c

```

```

<400> 123
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tggtgttcgt cttctctctc ctcgattgtt gcgcgctcat cttcctctcg gtctacttca 120
taattacatt gtctgattta gaatgtgatt acattaatgc tagatcatgt tgctcaaat 180
taaacaagtg ggttaattcca gaattgattg gccataccat tgctactgta ttactgctca 240
tgtcattgca ctgggttcac ttcttcttca acttacctgt tgccacttgg aatatatata 300
gatacattat ggtgccgagt ggtaacatgg gagtgtttga tccaacagaa atacacaatc 360
gagggcagct gaagtcacac atgaaagaag ccatgatcaa gcttggtttc cacttgctct 420
gcttcttcat gtatctttat agtatgatct tagctttgat aaatgactga agctggagaa 480
gccgtgggtg aagtcagcct acactacagt gcacagttga ggagccagag acttcttaaa 540
tcctccttag aaccgtgacc atagcagtat atatttctc cttggaacaa aaaactat 600
ttgctgtatt ttaccatat aaagtattta aaaaacatga aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaanna aaaaa 685

```

```

<210> 124
<211> 921
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (9)..(9)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (11)..(11)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (15)..(15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (20)..(20)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (901)..(901)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 124

gcgnggggna	naggnaagcn	ccccactatt	gggttcaaaa	gctggagctc	caccgcggtg	60
gcgggcgctc	tagaactagt	ggatcccccg	ggctgcagga	attcggcacg	aggtctgagc	120
agataagatt	aagggtctggg	tctgtgtctca	attaactcct	gtgggcacgg	gggctgggaa	180
gagcaagtc	agcgggtgcct	acagtcagca	ccatgctggg	cctgccgtgg	aagggaaggc	240
tgtcctgggc	gctgctgctg	cttctcttag	gctcccagat	cctgctgata	tatgcctggc	300
atttccacga	gcaaagggac	tgtgatgaac	acaatgtcat	ggctcgttac	ctccctgcc	360
cagtggagtt	tgtgtccac	acattcaacc	aacagagcaa	ggactactat	gcctacagac	420
tggggcacat	cttgaattcc	tgggaaggagc	aggtggagtc	caagactgta	ttctcaatgg	480
agctactgct	ggggagaact	aggtgtggga	aatttgaaga	cgacattgac	aactgccatt	540
tccaagaaag	cacagagctg	aacaatactt	tcacctgctt	cttcaccatc	agcaccaggc	600
cctggatgac	tcagttcagc	ctcctgaaca	agacctgctt	ggagggattc	cactgagtga	660
aaccactca	caggcttgct	catgtgtgtc	tcccacattc	cgtggacatc	agcactactc	720
tyctgaggac	tcttcagtgg	ctgagcagct	ttggacttgt	ttgttatcct	attttgcatg	780
tgtttgagat	ctcagatcag	tgttttagaa	aatccacaca	tcttgagcct	aatcatgtag	840
tgtagatcat	taaacatcag	cattttaaga	aaaaaaaaaa	aaaaaaarct	cgagggggggg	900
nccggtaccc	agggcggaag	a				921

&lt;210&gt; 125

&lt;211&gt; 894

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 125

ggcacgaggt	actgccgggc	tgccgggtcc	ctgctctggg	tacttctctg	ctttcggggc	60
tctcgtctag	aagctgcagc	ttggcctgtc	tcacctctac	acagaggggc	tgctggcgcc	120
tgacggaaaa	aggtccacac	accgatggc	cggcccgggg	tggacgctgc	tgctactgct	180
gctgctgctg	ctgctgctgg	ggtccatggc	aggggtatggg	ccacagaaga	agttgaacct	240
gtcccataag	ggcatcgggg	agccatgcgg	gagacacgag	gagtggcaga	gcaactgctg	300
taccatcaac	agcctggccc	cacacacgct	ctgcacccct	aagaccatct	tcctgcagtg	360
cctgccctgg	aggaaagccca	atgggtacag	atgctcgcac	gactcagagt	gccagagcag	420
ctgctgcgtc	cgcaacaaca	gcccgcagga	gttgtgcacg	ccccaaagcg	tcttcttgca	480
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cctggcccag	tgccctgccc	tgtgatgtga	gctcgaacct	gggcgcgagg	gaccggcctg	660
ggccctggga	tgttcacgca	ggaccgcgtt	gcgcgggggc	tggttccagc	ggaagcttcc	720
cttacggttt	gtgctgctgt	ttctggggct	ctgaaaatct	gtgggaactg	aaaggctgtg	780
accagcctgg	tggcgcggaag	tgtctgtgag	aacaaatccc	aggcactggg	gtgtagcctg	840
attgttaaag	atcaataaag	gctctgggcc	gactgaaaaa	aaaaaaaaaa	aaaa	894

&lt;210&gt; 126

&lt;211&gt; 582

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

ggcacgagat	atttcgctgg	accctagaaa	agccaccacg	acctgtgggc	catgatgcta	60
ccccaatggc	tgctgctgct	gttccttctc	ttcttcttct	tcttctcctc	caccaggggc	120
tcactttctc	caacaaaata	caaccttttg	gagctcaagg	agtcttgcat	ccggaaccag	180
gactgcgaga	ctggctgctg	ccaacgtgct	ccagacaatt	gcgagtcgca	ctgcgcggag	240
aagggtgccg	agggcagtct	gtgtcaaacg	caggtgttct	ttggccagta	tagagcgtgt	300
ccctgcctgc	ggaacctgac	ttgtatatat	tcaaagaatg	agaaatggct	tagcatcgcc	360
tatggccggt	gtcagaaaat	tggaaggcag	aagttggcta	agaaaatgtt	cttctagtgc	420

tcctctcttc	ttgtgtgctc	ctcctctctc	acctgtctct	ctccctaccc	agagctctgt	480
gttcaccctg	ttccccagag	cctccacccat	gagtggagg	aagtggggag	tgattgaaat	540
aaagagcttt	ttcaatgaaa	aaaaaaaaaa	aaaaaaaaaa	aa		582

&lt;210&gt; 127

&lt;211&gt; 1336

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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gaccacttac	atactcatct	acaataaacc	ccaactaact	aatttttcac	tttgtgtacc	120
tcatgtcaat	atccgtggac	agtaaatgtgc	ctgttgtgtt	ccttttgctt	ttcatccttg	180
tgatcttatg	tcacatggaa	tgtaaaggcc	acatatatat	atgtgtgtgt	gtgtgtgtgt	240
atatgtatat	ttttaagaat	atttagtctg	gatttcatga	aattgacttc	tgaaataatt	300
tgcttcaatt	ttgtttcctg	gtggtttgag	aagaaagttc	ctgtggtgaa	atgaaaagg	360
gataaaaggga	agtacttatt	ttaaaacata	agtaacttgt	ggattgttga	atactggaaa	420
aagagtgtta	cttccccgtt	aacctacgcc	tcgtgtaatc	cttcagggtg	gaagtcggat	480
cgcagaccgt	gtatatgaca	taccagaaa	ttccccctt	gctttggatc	ttggttgtgg	540
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ggaaagtitt	tccaagctga	cattgcagaa	aatgctttgt	ttgcattggg	tgaatgacct	660
tcctagagca	cttgagcaga	ttcattatat	tttaaaacca	gatggagtgt	ttatcgggtc	720
aatgtttgga	ggcgacacac	tctatgaact	tcggtgttcc	ttacagttag	cggaaacgga	780
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tcacagtggg	cttaaggtat	gggtgagagt	aactgtgctt	ggaatagaaa	agccctgctg	1080
catcgagaca	caatgctggc	agctgcggca	gtgtacagag	aaatgtacag	aaatgaagat	1140
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aacaacctta	tgccaccggg	gaaaaaatca	caataaatat	ttattcagt	ttaaaaaaaa	1320
aaaaaaaaaa	aaaaaa					1336

&lt;210&gt; 128

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

ggagacgggtg	ggtgaccaga	gagtcctgtc	tatcctagga	ggagaacatt	cagcccaaat	60
cccagcccca	tcatgcacag	atcagagcca	tttctgaaaa	tgctcgctgt	gattctgctt	120
ttcttggtgat	tggcagaagc	ctgtactcct	ctgtgaagtca	acttgctgaa	agggatcata	180
gggtctcatga	gcagactgtc	accggatgag	atcctaggct	tgctgagcct	ccaagtactg	240
catgaagaaa	caagtggctg	caaggaggaa	gttaaaccct	tctcaggcac	caccccatcc	300
aggaaaccac	tccccaagag	gaagaacacg	tggaaacttc	tgaaatgcgc	ctacatggtg	360
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gtgagcctgc	tccatctcag	cttagccttc	acaaggcctc	catctcccag	gcattctaac	540
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aaaaaaaaaa	aaaaaaaaa					799

&lt;210&gt; 129

&lt;211&gt; 1689

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

actatagaag	tgcctgcag	taccggctcc	ggaattaagg	gtcgacccac	gcgtccgggc	60
taattgtttg	gtcagaaatt	cctaaggcca	cagctttggg	gggttcgtgt	agatgtacat	120
ggtgggtggg	ttataaatat	tgggacttaa	ggcagcttgt	tctatgtatt	tatctttgct	180
cttgggtgac	ttagggaatg	attttatttg	atthaacctt	ctttctgttt	gccccgagaa	240
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atttcgcttt	tattatatttc	acatcattct	agtatatgga	ctttggaaac	aaaagacatt	360
gttctattta	tagcattctt	tttttttttt	tagtagcggg	atthccattt	acaaaatata	420
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acatcaagtc	attagaattt	atctaaagct	tatcatgatt	tgataagaca	tccattgcat	1560
gcagctgttt	tagctcagtg	caaaacactg	aaattgtgat	tcttagactg	tttctgagac	1620
atthggatgg	aaataaatgt	ataaatgtta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1680
aggcgggcc						1689

&lt;210&gt; 130

&lt;211&gt; 1000

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

agcgggcgggc	gcaggacgtg	cactatggct	cggggctcgc	tgcgccggtt	gctgcggctc	60
ctcgtgctgg	ggctctggct	ggcggttctg	cgctccgtgg	ccggggagca	agcgccaggc	120
accgccccct	gctcccgcgg	cagctcctgg	agcgcggaac	tggacaagtg	catggactgc	180
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ggagatattt	atthttggga	gagtttggag	gggagggaga	atthttaaat	aaaagaatct	960
ttaactttaa	aaaaaaaaaa	aaaaactcga	ggggggggccc			1000

&lt;210&gt; 131

&lt;211&gt; 420

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

ggcagcagag	agagcagagc	tatacatagc	tatccaggtc	taacttcacg	aagaatagaa	60
------------	------------	------------	------------	------------	------------	----

tggtttcttt	tcattttcaa	tgtacatcat	actttgtcag	actttttttt	cagttgcagc	120
tcttcggttg	actggtgata	gtattggctt	tattaatctc	tcatttctctc	acttattcat	180
tccacaaaca	tttgtagaag	gccaccaagc	tctagggaga	ggaaaaatgg	tttataaatt	240
agtgtcttct	gggataaagg	aaattttata	tctgtactac	ttaatagtag	ccactagcca	300
catgtgggtt	tcgaacaaga	tttccatcac	ctctccaacc	actttctcct	cattgggtcag	360
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&lt;210&gt; 132

&lt;211&gt; 1569

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (341)..(341)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 132

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cattttgcta	tttctttgtc	tgggctatta	cagggttatt	acagaaattt	ccagaaagac	240
ccctgcctgt	cgaatgttta	cttcaagctt	gagctcctgg	tatattatga	ggaaattata	300
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atttgccttc	ttgtcaaaga	aggagccaat	gttgttttaa	aatttttagct	tgagagatag	420
gtggggaaga	aattaaatag	acaagtaatc	mtatttcaga	agagaaggga	gagtcattgt	480
acgaggccca	agatacttgc	ccaaaaatat	cgcagagaaa	aactagtctt	tggggctcta	540
ttttttgagt	ggaacatttg	agttatttaa	aattagaatt	ttattttggg	cagattagaa	600
tttctagggt	atgtcatatg	tgtttttaaa	ttgaaagctc	ttaaaactcc	tattgtagtt	660
taatgtcatt	atccattaat	ttacataaat	ctgatttgga	tctctatttt	catcgtagac	720
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aaattaatag	ataatatgat	gtccaataag	gacttcaaag	gaaaataaag	cagagtaaag	1380
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taccatttga	ccaagcaatt	ctacacatag	gattcacctt	aaaaaaaaaa	aaaaaaaaaa	1560
aaactcgag						1569

&lt;210&gt; 133

&lt;211&gt; 1347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (83)..(83)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (334)..(334)

&lt;223&gt; n equals a,t,g, or c



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<400> 133
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tttgggcggc ccctgctgct gtcggccctg cacatgctgg tggcagccct ggcatgccac      180
cgggggggcac ggcgccccat gccaggcggc actcgtgcc gagtcctact gctcagtctc      240
acctttggca cgtccatggc ctgcggcaac gtgggcctaa ggctgtgccc ctggacctgg      300
cacaactggt tactaccacc acacctctgt tcancctggc cctgtcggcg ctgctgctgg      360
gccgccgcca ccaccactt cagttggcgg ccatgggtcc gctctgcctg ggggccgcct      420
gcagcctggc tggagagttc cggacacccc ctaccggctg tggcttcctg ctgcagacca      480
cctgctcccg cggactcaag tcggttcagc aaagtgcctt gctgcaggag gagaggctgg      540
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ccctggtgct ggaggctggc gttgccccac cgccactgc tggcgactct cgcctctggg      660
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tcatctctac taaaaataga aaaattagct gggcatggtg gcgcgtgcct atagtcccag     1200
ctacatggga ggctgaggtg ggaggatcac ttgagccctg gagatcgagg ctgcagtaag     1260
ccaagatcgc atgtactgc actccagcct gggagacaga gcgagacgct gtctcaatta     1320
aaaaaaaaa aaaaaaccgg cacgtag                                           1347

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<210> 134

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (41)..(41)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (49)..(49)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (64)..(64)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (621)..(621)

<223> n equals a,t,g, or c

<400> 134

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gaantagtgg aatcccccg gctggcagga attcggcacg agaaaatgac ttcagacaaa     120
tatgatcaat ctctacagtc ccctgatgaa ttccacaggt tcccaccacc atcagttcta     180
cctattcatc tcatccatgc tcattgttct gcctctttcc tgttcctatg gatgccctgg     240
catgtttgtt tctttctttc tggcctccta ttccctccc ctcagacatc acttcagcat     300

```

```

ctgtgccttc tcacttcacct tatcctgggt gttaccattt cagcctatga gcatgccatt 360
aatttgccat ctttacaaaa ttctctcttg acttcacatc cctctgtagc tgccctctcc 420
cttctctcct cttctttaca acaaaactcc ttaaaagaac tgttggctgg gcacagtgg 480
tcactctat aatcccagca ctttcagaag ccaagggtgg aacatcactt gaggccaaga 540
ggtcgagacc agcccaggca acacagttag acctcatcac tacaaaaaaa aaaaaaaaaa 600
actcganggg gggggccgga nccaattggc ctaaagttag tc 642

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<210> 135

<211> 1323

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1086)..(1087)

<223> n equals a,t,g, or c

<400> 135

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cctcgccgga ggtcagcgtt gctgtggttc ctaagttaa tgccctgaat ctgcctggcc 120
aaactcccag ctcatcatcc attccctcct taccagcctt gtcggaatca cccaatggga 180
aaggcagcct acctgtcact tcagcactgc ctgcactttt ggaaaatgga aagacaaatg 240
gggaccaga ttgtgaagcc tctgtcctcg cgctgacct gagctgcctg ggaggagctt 300
agtcaggaga ccaaggccag gatggaggaa gaagcctaca gcaagggtt ccaagaaggt 360
ytaaagaaga ccaagaact tcaagacctg aaggaggagg aggaagaaca gaagagttag 420
agtcctgagg aacctgaaga ggtagaagaa actgagggaag aggaagaagg cccaagaagc 480
agcaaacttg aagaattggg ccatttctta caagtcatgt atcccaaact gtgtcagcac 540
tggcaagtga tctggatgat ggctgcagtg atgctgggtc tgactgttgt gctggggctc 600
tacaattcct ataactcttg tgcagagcag gctgatgggc cccttggaag atccacttgc 660
tcggcagccc cagggactcc tgggtggagc caggactcca gcatgagcag cctacagagc 720
agtaggaac ctcacacctg gccagtggcc tgccttgaga cactcagact accaccctt 780
ccccaagtat aacgtcaggc ccaagtgtgg acacactgcc gcccatcca tcaggtcatg 840
aggaagggtt cttttaacac tcggcacttc tgtgggagct attcatacac agtgacttga 900
tgttcttggg ggatcaacaa aactgccctg ggaagcatc cagtggatga agaagtcacc 960
ttcaccaagg aactctattg gaagggaagg tctcctgccc ctactcagg tggctgggga 1020
gaactaaaac accttactg gtggttgggg gtaaggagcg gggcacgggg gaggaggagg 1080
tagggnnacg taaaaaactt actctctttt ttctctctg taattgggta tcaggaagaa 1140
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tcttcccatt tcccatctca tttcaataa cttcagcctc ccattctttc ctttggaatg 1260
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cga 1323

```

<210> 136

<211> 1271

<212> DNA

<213> Homo sapiens

<400> 136

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gtgctggctg gtctcgtaca gcttggctgt gctgttctc ggctgcctgc tcttcttgag 120
gaaggcggcc aagcccgag agacccacg gccaccagc ctttctgggg ctcccccaac 180
accccgtcac agccggtgtc caccacaaca cacagtgtct agcgcctctc tgtccctgcc 240
tagccgtcac cgtctcttct tgacctatcg tactgccga aatttctcta tcttctgga 300
gccttcaggc tgttccaagg atacctctt gctcctggcc atcaagtcac agcctggta 360
cgtggagcga cgtgcggcta tccgagcac gtggggcagg tggggggatg ggctagggcc 420
ggcactgaag ctggtgttcc tccaggggt ggacggatcc gctccccag ccagctgct 480
ggcctatgag agtagggagt ttgatgacat cctccagtgg gacttactg aggacttctt 540
caacctgacg ctcaaggagc tgcacctgca gcgctgggtg gtggctgcct gccccaggc 600
ccatttcatg ctaaggagg atgacgatgt cttgtccac gtccccaac tgtagagt 660
cctggatggc tgggaccag cccaggacct cctggtggga gatgtcatcc gccaaagcc 720
gccaacagg aacactaagg tcaataact catcccacc tcaatgtaca ggccaccca 780

```

```

ctacccaccc tatgctggtg ggggaggata tgtcatgtcc agagccacag tgcggcgcc 840
ccaggctatc atggaagatg ctgaactctt ccccatgtat gatgtctttg tgggtatgtg 900
cctgaggagg ctggggctga gccctatgca ccatgctggc ttcaagacat ttggaatccg 960
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agctggcccc atacccagc gctgaagggt gggttgggca acagcctgag agtggactca 1140
gtgttgattc tctatcgtga tgcgaaattg atgcctgctg ctctacagaa aatgccaact 1200
tggtttttta actcctctca ccctgttagc tctgattaaa aacactgcaa cccaaaaaaa 1260
aaaaaaaaa a 1271

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<210> 137

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (105)..(105)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (730)..(730)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (755)..(755)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (757)..(757)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (777)..(777)

<223> n equals a,t,g, or c

<400> 137

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cgtgcctgta gtaagctcat ccctgccttt gagatgggtga tgcgtgccaa ggacaatggt 60
taccacctgg actgctttgc atgtcagctt tgtaatcaga gattntgtgt tggagacaaa 120
tttttcttaa agaataacwt gaycctttgc caracggact acgaggaagg tttaatgaaa 180
gaaggttatg caccctmgtt tcgctgatct atcaacatca ccccatgaag aatacaaagc 240
actacattct tttatctttt ttgctccaca tgtacataag aattgacaca ggaacctact 300
gaatagcgta gatataggaa ggcaggatgg ttatatggaa taaaaggcgg actgcatctg 360
tatgtagtga aattgcccc agttcagagtt gaatgtttat tattaaagaa aaaagtaatg 420
tacatatggc tggatttttt tgcttgctat tcgtttttgt gtcacttggc atgagatggt 480
tattttggac tattgtatat aatgtattgt aatatttgaa gcacaaatgt aatacagttt 540
tattgtgtta ccatttgtgt tccatttgct yctttgtatt gttgcattta gtacaatcag 600
tgtttaaaact tactgtatat ttatgctttc tgtatttacc agctatttta aatgagctgt 660
aactttctag taaagaattg aaaagcaaat cctcactaaa ggatacacag gataggataa 720
agccaagtcn catcaacatt aaaaaatact aaananaaaa acacaaaaaa aaaaaanccc 780
ggggggggcc cggaacccat tc 802

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<210> 138

<211> 470

<212> DNA

<213> Homo sapiens

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<400> 138
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taataagagt tccacaatca atagaaatct atcttggcag gcacttcctt ttaccacta    180
gaattttttc ccttgggagt tcacgatccc cagaaactgt gatatgagcc attcaatatt    240
gatgtactaa aacagtgtc tgcttaaata cagtttttca acatacagtc ttggaagaaa    300
caaaatccaa aataaattcc aatagtccag taacaggaat aaagacaact attgcaaatt    360
aaatcttaca gacttatatg aaagctgttg ttaacagctg ggtactagtt atttgaaaag    420
tttctcgtgc cgaattcgat atcaagctta tcgataccgt cgacctcgta    470

<210> 139
<211> 1881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (70)..(70)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (126)..(126)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1860)..(1860)
<223> n equals a,t,g, or c

<400> 139
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actaacttttn cttcagcctt ttaatgcgaa gcaactagta gagcatgctt tcaggatctg    120
acagcncctgc tagtagagcg aagtatttat taatacagaa ttaaccttmg cccctttaaa    180
gtcaagtctg tctaatactaa ctagcgccctc gctttgcctt ctcacaatgc tcactagcca    240
tcatgtctcac ccttctcttc cagatccact tcctcatgat actgtcttct aactgggctt    300
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ccagagtgtt tcggccgacg tatttacagc tctgacaaat catcagacag ctgctctgca    480
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atactttggg aatttgtggc atgttcacat ttattgctag ggcaattcta ccaagacact    720
caatggaata tgtcacactc cttaataggg acctgtgact ccttaataag gacctgtgac    780
atgccagca tcaagggata agaccgtaaa ttcacatata tgccatctgt cctcaagtgt    840
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ctgcttacta tagggttaac tatgtatatt cattgttaag agttaacttg tggtttggtc    1740
gttycctgga ttttataaca tacatgtgca gaaatgtatt caaatgaaag gaagcatacc    1800

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 ctgcggccga caagggaatt c 1881

<210> 140  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

<400> 140  
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 gtctgagcgg cctaaccgcg gcccggttag agacctgcgg gggatgacag ctgaaccgcc 180  
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 ccagggtgaa ggctttcgtc acgcaggaca ttccattcta gtatccttct gttctggggg 480  
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 ggccctttac ttctttgaac cctaattttc tcacgtataa gcggagaccc tggccctctc 720  
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 ccagcaggga tggggttggg gaggttctcc caacccact ttcttccttc ccagctcca 1320  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1408

<210> 141  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 141  
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 gggggtgtcc cgtgcattgc aggacatcca gcagcatccc cgccctcctg ctccgtgcca 180  
 gtagcgccgc accccgccgt cgtgacagcc cagggtctcc ggtgtgcaga atgcccgtg 240  
 gtcagtctga gaggtacagg ggtgctgccc ccagggtttg aacgctgtct aactcccacc 300  
 tctggtgtgt ctctccctg tgtgtagcgt ggagtcactg gatgagtgtg gtgacctccc 360  
 tgtgtccagc tgccctgggc tgcaagcagg tccctcctgc agccctccag gccacctta 420  
 agcagagctg gaccagcctg gccaacatgg tgaacccca tctctactaa aaatacaaaa 480  
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 c 541

<210> 142  
 <211> 2407  
 <212> DNA  
 <213> Homo sapiens

<400> 142  
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&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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&lt;213&gt; Homo sapiens

&lt;400&gt; 144

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&lt;211&gt; 2213

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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&lt;211&gt; 1839

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 149

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<211> 1350

<212> DNA

<213> Homo sapiens

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<210> 151

<211> 947

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (547)..(547)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (555)..(555)

<223> n equals a,t,g, or c

<400> 151

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&lt;210&gt; 152

&lt;211&gt; 1633

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 152

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&lt;210&gt; 153

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 153

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aaaaaaaaaa aaaaaaa 1757

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<210> 154
<211> 712
<212> DNA
<213> Homo sapiens

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<222> (1)..(1)
<223> n equals a,t,g, or c

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<220>
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<222> (338)..(338)
<223> n equals a,t,g, or c

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cctttgtatt gataaaactcc ccagtgacta cagggattca gaagagctgt tgcaaat 240
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<210> 155
<211> 1384
<212> DNA
<213> Homo sapiens

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<400> 155
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agattatgtt ctcttctcat gtttggttta tccattatcc aaattttcca tttctttaac 300
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<210> 156

<211> 1715

<212> DNA

<213> Homo sapiens

<400> 156

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<210> 157

<211> 1538

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 157

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 <212> DNA  
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<400> 158

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ataaactctg	gacatcggtt	gaaccagtgt	caggggtcag	actgcagatc	ccagtct	1437

&lt;210&gt; 159

&lt;211&gt; 1816

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (504)..(504)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1405)..(1405)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 159

gcgtggatcc	aagatggcga	cggcgatgga	ttggttgccg	tggtctttac	tgcttttctc	60
cctgatgtgt	gaaacaagcg	ccttctatgt	gcctgggggtc	gcgcctatca	acttccacca	120
gaacgatccc	gtagaaatca	aggctgtgaa	gctcaccagc	tctcgaaccc	agctacctta	180
tgaatactat	tactgcccct	tctgccagcc	cagcaagata	acctacaagg	cagagaatct	240
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caacctgcct	gtggccaccc	ggctggagct	ctactccaac	cgagacagcg	atgacaagaa	480
gaaggaaagt	gatatcaaat	ggmctctctg	ctgggacact	tacctgacca	tgagtgcagt	540
ccagatccac	tggttttcta	tcattaactc	cgttgttgtg	gtcttcttcc	tgctcaggtat	600
cctgagcatg	attatcattc	ggaccctccg	gaaggacatt	gccaactaca	mcaaggagga	660
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tctgactttt	taaatcatta	tcattattat	ttttaattaa	aaaaatgcct	gtatgccttt	1740
ttttggtcgg	attgtaaata	aatataccat	tgctctacaa	aaaaaaaaaa	aaaaaaaaact	1800
tctcggccgc	aaggaa					1816

&lt;210&gt; 160

&lt;211&gt; 776

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

ggcacgagct	gatttctatt	tttaggagct	acttggattt	gtatgtattt	tttctacgtg	60
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```

aaaatatatg tactcttcac ttttgttcca gtactataat tgctcatgca ctctttctcc 120
cctttgagaa cattcagtga aatacaactt catcaaagat ttgctcaaag gagaagaatc 180
gcatgagtgt gaaaagtaga tgctcgtagc cagaacagaa aaggttacac atgatcatgg 240
cacagaagat aggaggtttg acttggtggg ccataatgtt tattatcctt tttgaaataa 300
cagggaccag cagcagtttt ctcaggataa atgctctacc ccacttctct atgaacaggt 360
gtggggaggg ttactttcca ttttcatatt tatacacctc tctacaaaag caatttttaa 420
tgaaggtagt tggaattgtt aaaaatctga gaggggaatga tgactggagg tgttttgggg 480
tttttttctg tattcatttt ttaatgagaa aagtttttaa tgtagtacag gttagaccca 540
actactacct tactattata ggacgattct atgtttctgt taaagtattc aagttagctt 600
ctctggggga aaaagtacca ctgggacact taaaggaatt gggatttttg tctactttgg 660
ataaggcagt tgacttctta agtaaaagca atagtgtaaa atgtcatttt gtttggaaatg 720
ttaagtgagc aaataaaaaa catgttgaaa ttgtaaaaaa aaaaaaaaaa aaaaaa 776

```

```

<210> 161
<211> 865
<212> DNA
<213> Homo sapiens

```

```

<400> 161
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aaaaaaaaaa tacgttcccc ttggttaact gattttttta tccagggtgg acattttttc 120
aacctttatt aaaaagacaa ataaactatt ttgtagaaga tcagactcct acttaactgg 180
aagagaaatg tctattaaat gtctctcctc ttctctgggg tcaagaccat gtaattttat 240
gcttcagaga tgaagatact gtttgtttac aaagagttta gtttttaaga catccaaaac 300
tctatgctag agcaaaaatc aaatagcaaa ggacactagc cagaaaatac agtgtgtgtg 360
tgtgcacctg tgtgcctgct gaacaacttg acagtgtaac agataaggta actgaagatg 420
gtggatattt gaattgtatt agcttaatgt ctacatatct ttggccaaaa ctctattgtc 480
atattagaaa catgttatct ttttcatgtt tattagtaat ttatttttga ttctttgttt 540
tctttttcgt ccaactaaaa caactgtaat gtacttgata catttatac aagttctaaa 600
gtattttagc aaatccaaat actttgtttt tagttttttc ctcttttcca tcctgttaac 660
cacagtgaat cgctgcagta ttttgatttg gtcagtgtca cggaggaaga ccatgaaagc 720
tgaattgggtc tgtgccaccc agagtaaac tcttctcttc ttctggaaag atggcgtgat 780
gtttttcaag gattctaata aatatccgcg agtcatctcc tgaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaggg cggcc 865

```

```

<210> 162
<211> 656
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (148)..(148)
<223> n equals a,t,g, or c

```

```

<400> 162
tcgacccacg cgtccgcttc ccaatatttc tcatttttaa aaatattttt tcttacacta 60
gaatgttatt ccttgtcttt tctttggktc ttttaaaacc cttgkttttt ttcycttttg 120
ggggagmccg aattgtaaat attgrgantw ttcagtmcca gcaccatgct gaaggaaagw 180
trggtagcta ataccttttt tttttttgag acggagtctt gcactccagc ctgggcamca 240
agagcaaaac tccatctcaa agatataagt gttttcaact ggcggttaag aaaaactgct 300
gctgtttggt ctctaaactt ttacaacggt ggttccact taatcttatt taggtcctgg 360
agccctaaaa aaaaaatctg aaaaacctgc agtctgtctt ccagaaaca cttgtgtgaa 420
acgttctggt gtttttgtgt tgagactggg tgacagagca agactcagtc tcaagaaaaa 480
aaaaaaaaag aatatacacc agcctgggcg tgggtggctc cgctgtaat ctcagcactt 540
ttgggaggcc gaagcgaggt ggatccacct gaggtcagga ttttgagacc agcctgacca 600
acatggtgaa accccatccc tactaaaaaa aaaaaaaaaa aaaaaaagg gcggcc 656

```

```

<210> 163
<211> 1155
<212> DNA

```



&lt;213&gt; Homo sapiens

&lt;400&gt; 163

```

ccgggtcgac ccacgcgtcc ggtgagtgca ctctaggatg ttcacatgat gacaaaatca    60
cctaacaatg tagacgcttc agaacaatata ccctttgtta atcgatgcat cactgtatat    120
atgtgtgtat atacacacat atatgtacat atatttaata cttttgtgta tgtgtgtgta    180
tatatatata tatatacttc tcattattta tactctagac ccagagcctc cttagctggtc    240
tccaaaattg gactctcatc tctctttgag acagccttca aatgatcggt tttaaagtgc    300
taattaactc ctcttctcaa aatgcttcaa tggcccacta atctctaccg aatcaaggaa    360
ttcagccata ctgtcccaag atatctttcc ttggccagtt ggagcctcat ttcagctgct    420
ctgggtttat cccctgtctc ttctttccca ctccaagcc tgtgctcagc ccacctctc    480
ttctggggat gccccacacc ccactctgcc atatctgcc aacctttcat ctccccgtga    540
agctcttgac accaaatata gtttacttta gaaaatgtat tttttccact ttctcaacta    600
aacttttctt tgtgtgatct gcttttccgc tgccaaggca catcggtttt aattctctac    660
agcactgtc atactttgcc cagtattata gcttctacat attggtcttg cttcttattt    720
ttgagcacia aaactaagcc actccacttt ctcttaccag tgaatccagc ttaaaaaaac    780
tgtgagcaac ctatcagtat tttgttgaca tgaactctat agaaacctta gtccctggat    840
cttcgactct gcctcccctg acattttatc gctcccacia agcacgcagg tgtgggaga    900
gaagtggctg ttttttgagg tcacatttca gccctgattc atcctaattg cttcacctt    960
tttatccttt ggscactgtg tycctagaga tgtgaattca attccgcacc attctctcct   1020
ttacaatgat gccaatattc tcaggctttt aagactaaat tttaaattac gagaaaattt   1080
gatcttcaaa cttaagttgg acctagaaaag aacaatctca tgaactcaaa aaaaaaaaaa   1140
aaaaaaaaaa aaaaaa

```

&lt;210&gt; 164

&lt;211&gt; 1459

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

```

acgcgtccgg cgtctgcagc tgcaggggag gaggactggg tccttccctc tgaagttgaa    60
gtgttgaggc ccatctatct agatgaacta cagggtgatta aaggaaatgg cagaacttca   120
ccatgggaga tctacatcac ttgcatcct gccactgcag aggaccagga ttcacagtat   180
gtctgcttca ctctggtgct tcagggtccca gcagagtatc cccatgaggt gccacagatc   240
tctatccgaa atccccgagg actttcagat gaacagatcc acacgatctt acaggtgctg   300
ggccacgtgg ccaaggctgg gctgggcact gccatgctgt atgaactcat tgagaaagg   360
aaggaaatc tcacagataa caacatccct catggccagt gtgtcatctg cctctatggt   420
ttccaggaga aggagcctt taccaaaaca ccctgttacc actacttcca ctgccactgc   480
cttgcctcgt acatccagca catggagcaa gagctgaagg cacaaggaca ggagcaggaa   540
caggaacggc agcatgctac aaccaaacag aaggcagtcg gtgtgcagtg tccagtgtgc   600
agagagcccc tcgtgtatga tcttgccctc ctgaaagcag cccctgaacc ccaacagcct   660
atggagctgt accagcccag tgcagagagc ttgcccagc aagaagaacg caagcggctc   720
taccagaggc agcaggagcg ggggggaatc attgacctg aggctgagcg aaaccgatac   780
ttcatcagcc ttcagcagcc tctgccccg gcggaacctg agtcagctgt agatgtctcc   840
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accggcctgg tactcggagg gagtccctgg gcctggaatc taaggatggt tcctagcagg  1380
acttgggtgg gggaaacagg aattggggat gggagggagg caataaagat atttggcctt  1440
caaaaaaaaa aaaaaa

```

&lt;210&gt; 165

&lt;211&gt; 661

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 165
gaattcggca cgaggggaaa aggatgctga acgagagcag aaagcctctt tcctttgctt    60
cacgcctttc cagtctttat tttaaactcg gggtcccttt ctgtggtcgc agcaaccttt    120
actccacctg cactgctgct cctgggggct cccaggcct cctctgcct ttctaccag    180
tggctgacgg gatgcctgtc ttgcctggac gcaccactgc tctcctgtcc ctcacctgg    240
cttttgctgt gccctgctct ggggttgaag ctggcccatg tgtcccccg agtcatggct    300
gctcctcctg ggaggcctct gtgtgcgtca cgtcttcac acctgggggc agctggcgag    360
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cccagactgg ggattttgcc aggggggcca tgggaggagc aggtgctttg cctggcggt    480
gtgtctgcat ttctggacgc cccagagcac agaagttgcc ggcaacttga ggtcttcctc    540
ggcatgtgcc agattacatg agtgacggct gggaatatgt tttctttttt gtaatggagg    600
cgtgtttcac ataatgtaaa gctcaccaaa aagtaaaaaa aaaaaaaa aaaaaactcg    660
a                                                                    661

```

```

<210> 166
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (352)..(352)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (376)..(376)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (378)..(378)
<223> n equals a,t,g, or c

```

```

<400> 166
ctttctgggt ttagggaagt ggtggacaag gcaggagaga accacattca tcttctcctc    60
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agagataagt awggctkggc atkgattctt ytgktgtwac ctcaagctgt tttctagtc    180
ccaagaacag caytytcagt ggggtgtgaa gtgggcggga catgaagcaa tggttttaca    240
ttgcattgcc tggctacags ttggcatttc tttccttttt ctttttcttt gcgtcattgc    300
cattggtgcc actaattttg cttcccctyt cttttataaa cttgtttcct cnggagttgc    360
ctaagagtc tgcattanaa cctaattggg aatgaagcag tgtgttc    407

```

```

<210> 167
<211> 711
<212> DNA
<213> Homo sapiens

```

```

<400> 167
ggcacgagcg aagaccctgt tcggaccctg ccccgattcc agactcaggt agatcgtcgg    60
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cccaggaggt aggggctacc ttgaggggat gatagacct cccactccc agtgkkactc    180
tggaaatatg aaggaactag ggagtggaa agatttcaga gctggggaga ggagttcctc    240
ccttcaaagc cagcaactgc ctttggggaa tgtcgggggg tctctccttt ctctgcttg    300
tgtkargtgg tacacagtcc ccccttcacc tggcgggaag ctgtcccga cagactcatc    360
tcagctttcc cttggggcag gatcgggggc agcagctcca gcagaaacag caggatctgg    420
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cttcatagct tctgctggcc tggggtggac ccaggacccc tggggcctgg gtgccctgag    600
tgggtgtaaa gtggagcaat cccttcacgc tccttgcca tgttctgagc ggccagcttg    660
gcctttgcct taataaatgt gctttatttt caaaaaaaaa aaaaaaaaaa t          711

```

&lt;210&gt; 168

&lt;211&gt; 1050

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

```

ggcacgagct tttcagcatt tgatgggtgc tgaccactcc cactttcaca gaaccctcat    60
caaacagcct tctatgatcc caaatgcaac tttctatcac atttttatgc tcttctctcg    120
cctactcatg aaaatggttg ggccatccag gcttccattt ttagccctca ctttggtgcag    180
gtttatactt tattttcagt tttgttatct gatctctgac tccagcccag accattcctg    240
actccacatc cacatattca tctggcttgc tgaataactt ctcttgatg tacatgtgtg    300
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gtcgttctag aatcctccct cactccta atgccatcca attagtgaac aaatcctatc    480
gattcggcct tctaaataca gtcaaaacat ttcattcaat tcagcgtcac tgtcattgct    540
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cagaaaaggt aactattggg tactgaactt aatacctggg tgattaaata atctgttcaa    960
caggcccca tgatatgagt ttacctacgt aacaaacctt cacatgtatc cccaaccta    1020
aaataaaagt taaaaaaaaa aaaaaaaaaa    1050

```

&lt;210&gt; 169

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 169

```

ggcacgagga gagtagaggc tattcatgta atgtctataa aaaaataaca ccaaggctgg    60
gattacagga atgagccact gcacctggcc agtttgctta ttttggttg tgcctcctcc    120
catgggagac ctcaaggagg tatgcctgcc ccacagatgc cctggaagga cagcttgctg    180
ctcctactca gaaccacacc tgcagacaga ggaggacaga cggacactca tttgctgagc    240
acctatgtaa catgaactaa gagctgggtg gagacaatga acgggtggagc catcgttccc    300
gatgtggagg gagaacagct caagaccacg gaacagcctg ctctcccgct tcttggttcc    360
cgtgcgcttt tgtccaatca ggctttttga ccaatcggcc aggcgcgcta tgtaaatttc    420
tgacattttc aaagctgtct ttttaataaa cttttcagtg taaaaataaa aaaaaaaaaa    480
aaaaaaaaa

```

&lt;210&gt; 170

&lt;211&gt; 2152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 170

```

ccgctttgtt ctccagatgt gaatagctcc actataccag cctcgtcttc cttccggggg    60
acaacgtggg tcagggcaca gagagatatt taatgtcacc ctcttggggc tttcatggga    120
ctccctctgc cacatttttt ggaggttggg aaagttgcta gaggcttcag aactccagcc    180
taatggatcc caaactcggg agaattggctg cgtccctgct ggctgtgctg ctgctgtgctg    240
tgctggagcg cggcatgttc tctcaccct ccccgccccg ggcgctgtta gagaaagtct    300
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tcgagagcga ctctgtccag cctgtgcctc gcttcagaca agagctcttc agaattgatg    420
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ctcagcagct gcccgatggg cagagtcttc caatacctcc cgctcctctg gccgaactgg    540
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atggacgagg agcgaccgac acaaaaggcc ctgtcttggc ttggatcaat gctgtgagcg    720
ccttcagagc cctggagcaa gatcttctct tgaatatcaa attcatcatt gaggggatgg    780

```

```

aagaggctgg ctctgttgcc ctggaggaac ttgtggaaaa agaaaaggac cgattcttct 840
ctgggtgtgga ctacattgta atttcagata acctgtggat cagccaaagg aagccagcaa 900
tcacttatgg aacccggggg aacagctact tcatgggtgga ggtgaaatgc agagaccagg 960
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tggttcctct tacagaagag gaaataaata catacaaagc catccatcta gacctagaag 1140
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ttgggtctag tatagtacat tttcccttcc atttaaaatg tcttgggata tctggatcag 1860
taataaaaata tttcaaaggc acagatgttg gaaatggttt aaggtcccc actgcacacc 1920
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aggattggat tccttccaac ctttttagcat atctccaacc ttgcaatttg attggcataa 2040
tactccgggt ttgcttttcta ggtcctcaag tgctcgtgac acataatcat tccatccaat 2100
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<210> 171

<211> 1113

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (349)..(349)

<223> n equals a,t,g, or c

<400> 171

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ttttaacctc ttccttgacg ctagctgctt gtgcaaatca catcttggcc gcctactctt 180
cttcacttgc tgacagatgt gtagggtgaga aaagtctcat agtcattgtt cctgaaaagaa 240
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ggacagagct ggtctttttt ttagtggggg atggcgggca gtggggcang ggacattcaa 360
aatthatttt ccaacagaca gatagcatca gcaggtacaa ctacaagggt atctacatag 420
atcatacatt cacaaggcat tattagttca acagtggaga agccactcgt ggggttttctg 480
taacaatadc ccacttcata gtgtaaacag gtactatttt gttcacttac aattccggaa 540
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aagagacaac actttggcta acaatcttgg atccacattt cagtcagggc cttccacata 660
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aagaagacaa aaaaaaaaaa aaaaaacctc gta 1113

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<210> 172

<211> 1555

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1389)..(1389)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1391)..(1391)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1393)..(1393)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1396)..(1396)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1551)..(1551)  
 <223> n equals a,t,g, or c

<400> 172  
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 gctcagcctc tggatggagc tctttccagc agaagcccag cggcaaaaat ctcagaaaaa 180  
 tgaagaggga aagcatggac ccttaggaga taatgaagag aggaccagag tatctactga 240  
 caaaagacag gattactggg agcagctaag atgcctarat gaaagggtta ccatcactgc 300  
 tggttaggaa atggattatg agaactcgaa cagaggggaa gtgaaatgca accggaggaa 360  
 acactctgat atgaggtttg aggccttcaa aattgctttg cagcataagc cacagtgagt 420  
 caggagtacc agggagtgga tagaatgttt atttggttaa ctgagacttt ttagttcatc 480  
 aattattttg aagggttagaa cactctgtgg gctctctttc tatttccttc tgggtacaat 540  
 cacaaaaaaa aaatctctcc tagctgaaat tacatgcagt actagcaaag ggtctctttg 600  
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 tcgttcaatt tcaaatacaa attaaaatat tttttcacat ttgttatcct gttatgtttt 720  
 ctcttttaca aattgtctgt tcgtatcttt ttgtctctct ttaggcctta ttcttgtcaa 780  
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 gcttttaaaa gttaatatg cccttcagac accatcccaa catcacataa gaattttttc 960  
 atgttataaa ttctttgtgg acatatgtga taactgtttt attatgagga ggaccataat 1020  
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 tgggtgtgtna nangngcag tttgtagagg agacctctta caaatgtgac tttattcaaa 1440  
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<210> 173  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

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<220>
<221> misc_feature
<222> (138)..(138)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (460)..(460)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (473)..(473)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1048)..(1048)
<223> n equals a,t,g, or c

<400> 173
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cctgaggggc aagttcaaga ccaagattgg agctgggccg cctcatgggc cccaaggag      120
tggccgtaga ccggaatnga catatcattg tggtcgacaa caagtcttgc tgcgtcttta      180
ccttcagacc caatggcaaa ctggttgccc gttttggggg ccgtggggcc actgaccgcc      240
actttgcagg gccccathtt gtggctgtga acaacaagaa tgaaattgta gtaacggact      300
tccataacca ttacgtgaag gtgtacagtg ccgatggaga gttcctcttc aagtttggt      360
cccattggcg gggcaatggg cagttcaatg cccccacagg agtagctgtg gactccaatg      420
gaaacatcat tgtggctgac tggggcaaca gccgcaccn aggtattcga canctctggc      480
tccttctctg cctatatcaa cacatctgca gaaccactgt atgggtccaca gggcctggca      540
ctgacctcgg atggccatgt ggtggtggct gatgctggca accactgctt taaagcctat      600
cgctacctcc agtagctgta cagaggccct gcctggcttg tggagggaca gacattgggg      660
tgattggaca agaggggtct gctgggaggt gggccagacc tggcagcact gaatgtgggc      720
tgtgggcatg ggtgcacccg gtgccctccc tctcctaccc ccacccccac ggttgcactt      780
tatttattcg gttcttgctt tgggtactgg gtgagcctgg actgtggtcc caaggatgtg      840
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ccccagcctt ggggccagaa cagcctaccc caggacagga gtccctctag ttgtctccct      960
accaccctat acacactgac agagacagca ataccacc ccccatatta aataaatgtc     1020
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<210> 174
<211> 1532
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1412)..(1412)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1433)..(1433)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1446)..(1446)
<223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (1505)..(1505)  
 <223> n equals a,t,g, or c

<400> 174  
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 cagcattgct gctaggtccc tcctgcagat catctgaaat gaacctctct tattgatttt 180  
 tattggccta gagccaggag tactgcattc agttgacttt cagggtaaaa agaaaacagt 240  
 cctggttggt gtcacataaa acatatggac cagtgtgatg gtgaaatgag atgaggctcc 300  
 gcaatggaac tgtagccact gctttagcat ttatcacttc cttccttact ttgtcttggt 360  
 atactacatg gcaaaaatggg aaaggtaagg aaaatgactc ggaaaatgtg catgaaatgt 420  
 actagggttt ttgcttggtt aaggctgcta aatgcttagg tcaaataccc tggcaatctg 480  
 catgttacat gctatctgct ggagttttct ttctgatata aaaatgaaac agtattcttg 540  
 gacagaggac acagaatttc taattccagt ggggcttggt ttgctttcag tttcttataa 600  
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 ataataaaga ctttcgtttt ggcatTTTTgt tctttttact aaacataatt aagtgtttaa 720  
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 tgagatttac atgctaatta tgctaaygat tgggtgctat gtagttaatg atttaaactg 840  
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 gtcacaccc gggctwtttg aagctgctgt tgctgatgtt gttttattga ctcatgaaga 1200  
 caactgaaaa gattgctttg taaccttatt tttttctgat gtgtgtttac atccatgtct 1260  
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 taagtgaata catgctctgt gctttgaaac aaaaaaaaaa aaaaaaaact cgaggggggg 1380  
 cccgttacc aattcgccct atagtgcagc gnattacaat tcaactggccg cgntttacaa 1440  
 cgctcngact gggaaaaccc tggcgttacc caacttaatc gccttgcagc acatccccct 1500  
 ttcgncagct ggcgtaatat cgaagaggcc cg 1532

<210> 175  
 <211> 1559  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1445)..(1445)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1551)..(1551)  
 <223> n equals a,t,g, or c

<400> 175  
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 tacctacagc ggccggagct gcgggtgccc gtgcctgagg tcctactgca cagcgaagg 120  
 gctgccagca gcagcgtctg caagctggac ggactcatcc accgcttcat cacgctcctt 180  
 gcggacacca gcgactcccg ggctgtggag aaccgagggg cggatgccag catggcctgc 240  
 cggaagctgg cgggtggcga cccgctgctg ctgctcaggc acctgcccac gatcgcggcg 300  
 ctcttgacg gccgcacca cctcaacttc caggagttcc ggcagcagaa ccacctgagc 360  
 tgcttcctgc acgtgctggg cctgctggag ctgctgcagc cgcacgtgtt ccgcagcag 420  
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 aagtcctccc gccatctggc tgccttcac aacaagtttg tgcagttcat ccataagtac 540  
 attacctaca atgcccagc agccatctcc ttctgcaga agcacgccga cccgctccac 600  
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tacgctctcc	tgtgccaaga	gcacgcggct	gtgctgctcc	accgggcctt	cctgggtggc	1140
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cgacctgaac	tgtcaaaaaa	aaaaaaaaaa	aaaccgcgrg	gggggcccgc	nacccaatt	1559

&lt;210&gt; 176

&lt;211&gt; 1064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

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acagcaacgc	aagtgccttt	gaccttgatt	tggacttttc	tcccttttgc	atttggtgct	180
acagacttga	gacaccagca	gaagtgtgtg	tcagcccggc	cccgtgcgc	ctgtccgggc	240
cggggctggc	gccggttgtg	tttgtgtcca	ccttgccctc	tttgagcca	agcagttttt	300
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaagggcgg	ccgc		1064

&lt;210&gt; 177

&lt;211&gt; 1231

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

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&lt;210&gt; 178

&lt;211&gt; 1238

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 178

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&lt;210&gt; 179

&lt;211&gt; 1189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 179

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&lt;210&gt; 182

&lt;211&gt; 1523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

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&lt;210&gt; 183

&lt;211&gt; 2496

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2340)..(2340)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2373)..(2373)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 183

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&lt;210&gt; 184

&lt;211&gt; 549

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 184

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&lt;211&gt; 1001

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (919)..(919)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 185

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&lt;210&gt; 186

&lt;211&gt; 1142

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 186

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ct

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<211> 2238

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (45)..(45)

<223> n equals a,t,g, or c

<400> 187

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<210> 188

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1004)..(1004)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1008)..(1008)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1010)..(1010)

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<220>

<221> misc\_feature

<222> (1018)..(1018)

<223> n equals a,t,g, or c

<400> 188

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t 1021

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 <212> DNA  
 <213> Homo sapiens

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 gccccgaggt gaggcggcgg gggcgggtgca ggacctggcg cgggcgctgg cgcattctgct 300  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1052

<210> 190  
 <211> 1492  
 <212> DNA  
 <213> Homo sapiens

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 catggggcat cccctgcccc gaccagcggg acaaggagcg ggaacggcgg ctgcaggagg 240  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ag 1492

<210> 191  
 <211> 1215  
 <212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 191

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ttgtatatgt ttaccaagtt caactaccta attttgaagc tctttccaaa taagatacaa      180
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aaaaaaaaaa aaaaaa

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&lt;210&gt; 192

&lt;211&gt; 1543

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 192

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&lt;210&gt; 193

&lt;211&gt; 954

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 193

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&lt;210&gt; 194

&lt;211&gt; 1794

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1675)..(1675)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 194

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 <212> DNA  
 <213> Homo sapiens

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 gagagtttct tttaaataat cagcgggtgt tggtgatttg tagcccttct gcccttaaat 1140  
 gcttccttgg gcaagagctg tctgtcctcc ctgcaggagg ctgagtgtga agagtatcat 1200  
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 cg 1262

<210> 196  
 <211> 989  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (955)..(955)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (979)..(979)  
 <223> n equals a,t,g, or c

<400> 196  
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 gcagtgtgta ggacgtgag ggacaccccg atgatggtec acacaggccc ctgctgctgc 180  
 tgctgcccct gctgtccacg gctgctgctc accaggaaga agcttcagct gctgatgttg 240  
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 cccgacggca tctatgacct agcagacatt tctgagggga gcacagctct atggatcaac 360  
 actttctctg gcgtgtccac actgctggct ctctggacct tgggcatcat ttcccgtaac 420  
 gccaggctac acctgggtga gcagaacatg ggagccaaat ttgctctgtt ccaggttctc 480  
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 gcttgctgc ctccctattc ctctaaaacc aggtctcaag tgatgaattg ccacctctc 600  
 atactggaga cttttctaata gactgtgctg acacgaatgt actaccgaag gaaagaccac 660  
 aagggtgggt atgaaacttt ctcttctcca gacctggact tgaactcaaa gcctaagggtg 720  
 gatggcttgg acaatgaaag gatgctgtac tcattagaat acaagattcc tttactgtcc 780  
 ctcaaccttg accaaatggg aagcattccc ccttgctcaac acaagctggc agatacattt 840  
 gactctacag atgaagggtga acaatgttag gataaaattg ctttggatct tgccctggaag 900

ttgttttaag ttttgtaata aacaagatga tgtctgaaaa aaaaaaaaaa aaaanaaaaa 960  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 989

<210> 197  
 <211> 2572  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2527)..(2527)  
 <223> n equals a,t,g, or c

<400> 197  
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 catgggcgca cttgtgcgct gcaccacct gtgctgggc tactacaaga acattcacga 180  
 catcatccct gacagaagtg gcccgagct ggggggagat gcaacaataa gaaagatgct 240  
 gagcttctgg tggcctttgg ctctaattct ggccacacag agaatcagtc ggctatttgt 300  
 caacctcttt gtttccggg accttggtgg cagtcttgca gccacagagg cagtggcgat 360  
 tttgacagcc acataccctg tggtcacatg ccatacggct ggttgacgga aatccgtgct 420  
 gtgtatcctg ctttcgacaa gaataacccc agcaacaaac tgggtgagcac gagcaacaca 480  
 gtcacggcag cccacatcaa gaagttcacc ttcgtctgca tggctctgtc actcacgctc 540  
 tgtttcgtga tgttttgac acccaacgtg tctgagaaaa tcttgataga catcatcgga 600  
 gtggactttg cttttgcaga actctgtgtt gttcctttgc ggatcttctc cttcttccca 660  
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 atggagaatg agtcggccac ggagggggaa gactctgcca tgacagacat gcctccgaca 960  
 gaggaggtga cagacatcgt ggaaatgaga gaggagaatg aataaggcac gggacgccat 1020  
 gggcactgca gggacagtca gtcaggatga cacttcggca tcatctcttc cctctcccat 1080  
 cgtattttgt tccctttttt ttgttttgtt ttgtaaatga aagaggcctt gatttaaagg 1140  
 tttcgtgtca attctctagc atactgggta tgctcacact gacggggggga cctagtgaat 1200  
 ggtctttact gttgctatgt aaaaacaaac gaaacaactg acttcatacc cctgcctcac 1260  
 gaaaaccaa aagacacagc tgcctcacgg ttgacgttgt gtccctctcc cctggacaat 1320  
 ctccctctgg aaccaaaagg ctgcagctgt gccatcgcg ctcgggtcacc ctgcacagca 1380  
 ggccacagac tctcctgtcc cccttcatcg ctcttaagaa tcaacagggt aaaaactcggc 1440  
 ttcctttgat ttgcttccca gtcacatggc cgtacaaaga gatggagccc cgggtggcctc 1500  
 ttaaatctcc cttccgccac ggagttcgaa accatctact ccacacatgc aggaggcggg 1560  
 tggcacgctg cagcccgagg tcccgttca cactgaggaa cggagacctg tgaccacagc 1620  
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 ggtaactttt gaagtagata tattacctgg ttctgtatc cttagtcata actctgcggt 2040  
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 tgcagtgcag tatatttttc taagttttgg aaagcagggt ttttcttta aaaaaattat 2220  
 agacacgggt cactaaattg atttagtcag aattcctaga ctgaaagaac ctatacaaaa 2280  
 aaatatattt aagatataaa tatatgctgt atatgttatg taattttatt taggctataa 2340  
 tacatttctc attttcgcag tttcaataaa atgtctctaa tacaatacgg tgattgcttg 2400  
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 agcattttta taaagtcctg catttgcat tgaatgtaag gctcagtaaa tgacagaact 2520  
 atttttncat tatgggtaac tgggggaata aatgggggtc ctggggagtag gg 2572

<210> 198  
 <211> 1488  
 <212> DNA

<213> Homo sapiens

<400> 198

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cgccaagttt cgggagggag agggtagaaa ctggaggggg tggacctgtc actcacggga      60
ctgagggtcc ttttctcccg ctcccaggag gaacgagaat gaatatgact caagcccggg      120
ttctggtggc tgcagtggtg gggttggtgg ctgtcctgct ctacgcctcc atccacaaga      180
ttgaggaggg ccatctggct gtgtactaca ggggaggagc tttactaact agccccagtg      240
gaccaggcta tcatatcatg ttgcctttca ttactacgtt cagatctgtg cagacaacac      300
tacaactga tgaagttaaa aatgtgcctt gtggaacaag tgggtggggtc atgatctata      360
ttgaccgaat agaagtgggt aatatgttgg ctcttatgct agtgtttgat atcgtgagga      420
actatactgc agattatgac aagaccttaa tcttcaataa aatccacat gagctgaacc      480
agttctgcag tgcccacaca cttcaggaag tttacattga attgtttgat caaatagatg      540
aaaacctgaa gcaagctctg cagaaagact taaacctcat ggccccaggt ctcactatac      600
aggctgtgcg tgttacaataa cccaaaatcc cagaagccat aagaagaaat tttgagttaa      660
tggaggctga gaagacaaaa ctcttatag ctgcacagaa acaaaagggt gtggaaaaag      720
aagctgagac agagaggaaa aaggcagtta tagaagcaga gaagattgca caagtggcaa      780
aaattcggtt tcagcagaaa gtgatggaaa aagaaactga aaagcgcat tctgaaatcg      840
aagatgtgctg attcctggcc cgagagaaaag cgaaagcaga tgctgaatat tatgtgcac      900
acaaatatgc cacctcaaac aagcacaagt tgaccccgga atatctggag ctcaaaaagt      960
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cctctaagga ggctcttgaa ccctctggag agaacgtcat ccaaaacaaa gagagcacag      1140
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aacaatcatt atacggactc ttcagattta cagagaactt acacttcac tgttccacct      1260
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tactcatgaa tgaggaaagt ctgatgctaa gatactgcct gcactggaat gttaaacact      1440
aaatatataa caagctgtgt tttcctaagc tgaaaaaaaa aaaaaaaa      1488

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<210> 199

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (287)..(287)

<223> n equals a,t,g, or c

<400> 199

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actgtgtctg tcttgtctct gatatttata tgccattatg tggcctctac tgccttagga      60
ttctaattgt cccactaaga tcagctaact cagttccact acagtgttta ccaccatcat      120
ctctcgcaaa caaagacagc cacttcagag ctcttaggaa atagtgggtg tcccatcatc      180
attgcattcc ttaatsacat ggtgaaaatt aacaatggct aaggagcctt tgtgttttct      240
cctctacaat atgcccagga atttctggca ttttggccat cttattnata ggctattact      300
gaatttmagc ctmatcctmc caaattatta atgccccaat attaactctt gattcttagg      360
tgagtgcacc catgccaata aatttgccat gatctaacct taaatgtatt ctcatatatg      420
ctgtccaagt ttctrctgat taaaatggca aggcctttag ttctctaca taggttttct      480
ctctccagag aaggcctcaa ttctctgact aggcctatgt gggatataac tggaggcact      540
aataggtagt agggtaaat ctttatttta ttatttttgg agacaggagg ggtcttgctt      600
tgttcagact ggagtgcagt ggtgtgatca tggtcattg caactttgaa ctctggggcg      660
acagagcaag actccatctc aaaaaaaaaa aaaaaaaaaa tcga      704

```

<210> 200

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (25)..(25)

<223> n equals a,t,g, or c

<400> 200

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gaattcggca cgagcgggac gcgntgaag atagcctgcg gagtgtccgg gcggaacacg      60
gttgacagac tcccagtaga ccaggagctc cgggaggcag ggccggcccc acgtcctctg    120
cgcaccaccc tgagttggat cctctgtgcg ccaccctga gttggatcca gggctagctg    180
ctgttgacct cccactccc acgctgccct cctgcctgca gccatgacgc cctgctcac    240
cctgatcctg gtggctcctca tgggcttacc tctggcccag gccttggact gccacgtgtg    300
tgctacaac ggagacaact gttcaaccc catgcgctgc ccggctatgg ttgcctactg    360
catgaccacg cgcacctact acacccccac caggatgaag gtcagtaagt cctgcgtgcc    420
ccgtgtcttc gagactgtgt atgatggcta ctccaagcac gcgtccacca cctcctgtg    480
ccagtacgac ctctgcaacg gcaccggcct tgccaccccg gccaccctgg cctggcccc    540
catcctcctg gccaccctct ggggtctcct ctaaagcccc cgaggcagac ccactcaaga    600
acaaagctct cga                                         613

```

<210> 201

<211> 1022

<212> DNA

<213> Homo sapiens

<400> 201

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ttccccgggtc gaccacgcg tccgcccacg cgtccggctt ggggccagca ccctgtctca      60
aagatggcaa aatgaggcta gttctggatg agctagctgg tgtgggttcc aaccatagga    120
acacactgat gctcaaatcc taaggtgcca agctctaggc cctggaggct ggtagaacag    180
gatctatgcc tggaaatcctg gcagggatc ctgtcaagga cttgtgttta agcctgcttc    240
agggcttcag gctgcttctg ctctgtgtct gccaggctg gctgagcggg tggatgggtg    300
gacagaaggg ctacccaagg attgtggaca tagggtaggc cctggtacca cgggtttcag    360
gctgttatca cttcccttgt aggaacatag ccagaagcag atgagccagg gtagagggtc    420
ggccccctcct ctcatcttcc cttcagtctt aaattgtctc cagcgatggg aagaggccag    480
ggactgtaac ccttgtgctg tgtattctct gagcctctgc tactctcag ggccaagcag    540
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gaaacaagct agaacaaccc tggcccagaa gactgtgcac tccagcaaga tccagggatg    720
atagccttgc agggccactg ggagtttgg cccaagcttc tccctcttct ctcccaggg    780
ggcactggga ctggtccctg ccctcatcct tagcctgggc cttccccaga ggtattaaag    840
agaagtatga ttcctctgtc ttcagtctt ttcaggggca tctgcccac agtaccag    900
tcccaagggg cccccaagtc cgtgggtgaag cctagcactc atgcagctct tagggaacca    960
aaaaccagca ctgaaataaa gctgaatgac tgactgaaaa aaaaaaaaaa aaagggcggc   1020
cg                                         1022

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<210> 202

<211> 1766

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1750)..(1750)

<223> n equals a,t,g, or c

<400> 202

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tgtttatgga ggggtccagta agtgcaaaca accattgcct ggtcctaagg gttcagagtc 120
cccgaattcc ttcttggacc aggaaaagccg gagacgaaga ttaccatttg cagactcgga 180
tcagttgcct ggggtactcg tggaaaccaa cattctgccc aaaaaaatga gagagaaaac 240
accatcttat ggcaagccac ggcctttgtc catgcctgct gatgggaact ggatggggat 300
tgtggaccct tttgccagac ctcgaggtca tggcaggaaa ggggaggatg ccctttgccc 360
gtatttcagt aacgagcgga ttcttccgat cattgaagag agctcctctc ccccataccg 420
gttctccaga cccacgaccg agcggcatct ggtccggggg gcggaactaca tccgaggaag 480
caggtgtac atcaactcag atctccacag cagcgccacg attccattcc aggaggaagg 540
gacaaaaaag aaatctggct cctcagctac gagtccctcg ccacagaacc gtccctctg 600
gtcagctggg ttacgcgcct caaactgttg actcactgag agggaccctg ctcaggccac 660
ctgcctggct cctgscctaa gtgccttgct ttacagtg acagcctctt ctggtttcag 720
cctcagtatt atgtagggac cttatgcaat ttcttttct tttgaaaagt tatctactgc 780
ccttcttggg agtttgcagg attggatggg acaaaattca gaggatctta ggtgctggct 840
tgtggagaca aaaggaggga aatgggtaga gcctgtttgt cttgcttccc cagagataga 900
atgtgaagac acgcgctaga aatcgagtc ctggccagag acgttatggg cattgtgagg 960
gactgggtgc attgttctt tttgaggggc tgggggggact caaattgggt gctgttttca 1020
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tttgatttga tttttctaaa ctatctacca tattttaagt gtagcagctt tgactttgca 1140
ataacgtggc aagtatctga tttctcctt gaggcagagg ttaagtgtta ggcctgttac 1200
actgtttga tacctttttc atgacagtct cagtatagat cagttggtag agaaatacat 1260
gaacacattt tgatagggtc tatttcacac aaagaagttt atggttattt gtgtgggggt 1320
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attttgacct gttcagtgtc tgtcttccag cacggtgtgt acacttcttc aaaattgtac 1500
acagtttgc aattagaaat atcttgaaa gcctcatggg cactaatttt caactagcat 1560
caggtatttt gaaaacgtgt gtctggatat taactcttgt ttaaactgaa tgtatgat 1620
tttgtttaga tggaaaagta ctatctgtt aatttaagta ttttaaatat agttgtatat 1680
ttttcttaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgctctagag gatcccgca 1740
ggggcccan attacgctg agcgtt

```

&lt;210&gt; 203

&lt;211&gt; 913

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 203

```

ggcacgagtg aatattttta aggctcttga tttgctggag gactgaaaaa aatgaagtga 60
tagtgtctga gaatatcat ttgacttatt ttttacagca tccattccct ttcattgttg 120
gagtggtctc tttagtggct taaattcttt gcctgccttt gggagtgttg aggggtggag 180
ggaccttttg agggtcgagg gtgaatgttg cttgctgtt tggatagcct tttgtttgga 240
ttctgtgtct gggcacaggg aataacacta ctttctgagg acagtatcag gattgtctgt 300
agttcctgtg agcctgaggt gctgcatgtg cccaccccg tgtacaggcc ctgccccagc 360
cacagccac tcacctttg accctcctgc tctgcctata cagtttgaat accagcaggc 420
tcagctggag gctgagatcg aaaacctctc atggaaagtg gagcgtgcag acagctatga 480
cagaggggac ttggagaacc agatgcatat agcggagcag cggaggagaa ccctgctgaa 540
agatttccat gacacctaa ttgggatgtg gatgtgccg ggtgaggaag atgtggctgc 600
aaggctctcc ggctgccata ctgcatgtg caggctctgc ctttcatgac ccaggcaac 660
agccagggct ccactcctga gagacactgg caacacctct tagttgattt ctgttttctt 720
ctcttttcac tttttgttcc taccagggtg gaggccatgt tgaactggcc tcttttcagg 780
acttttattt cccctggat ggtgtgtggg agggagggaa agtggtttct gaattggctat 840
taatagtatt agatcattac aacttatgta actttcaaag gttgtacaat tatacaaaaa 900
aaaaaaaaa aaa

```

&lt;210&gt; 204

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 204

```

gctaaaattc aacaaggtga gtggccggca gtggaaggct gttgctcatt ctgatttctg 60

```

```

ttggctctat ttcatgctaa mccagttttt tttgtttggt tgtttccact ttataacata 120
tggatttcta tgccacacta cccgtaactt tgaaaaataa ctttaggctg cagttttcag 180
caaacaggac agtccttagc tgccacatag ctcaacataa agtgcacaaa aaacttcacg 240
gtgggacagt gaatcataaa ttcccaaact gacgtgtgtc tacagaacag atgagaactg 300
ttactcagtg tgtatcttag gagcttttct gcagtttcct cacactccgt cacatttaaa 360
atgtggacac ttgtttatct cattagggag gaggcgaggg actaatgtcc accctgccca 420
gagtatttcg aatattcctta gtgaagagga ggaaagcaag aattctgttc taaaggccac 480
caggctaagc actagaatcg cattctcttc ctgtttgtat gtttatgtca gcagttgcca 540
cagatgtggt aatattgttt tcctggtaga gaattaaggt gttcgttcac ctcaaaacaa 600
atcccgtaac ctgcacacaa aactccagct tcctaatagc aagagaagag aatattgatt 660
ataagctgct tgatattctt tttattccca gcccctcaaa ataccagcct ggaagtctgg 720
acattactaa aatttaccag tctcaaaaaa aaaaaaaaaa aaaactcgag 770

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<210> 205

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2)..(2)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (87)..(87)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (89)..(89)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (525)..(525)

<223> n equals a,t,g, or c

<400> 205

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cnagggataa ccccaaagnt gggaaataaa ccctcaatta aagggggaac caaaaagctg 60
ggaagtcccc ccccgcggtg gcggccngnt ctagggaacta gtggaatccc ccggggctgc 120
aggggaattcg gcacggagtg ggaatgttgt ttgtatgata ctattttccac aawatgcatt 180
gagacttggg ktgtggccta ggacatggtc aattcttityt aaatattccg tgaatttctt 240
tagtgcatat tctccgatgg gggctgtggg gacagagttc taaatatgcc cattagatta 300
aatctcttca ttctgttgct cacatcttct atatccttat taatctgtca atctcttcaa 360
gagaggtggt attaaaatct ctactgtat gtgtcacttt gcccttaaaa ttctgatgat 420
ttgctttata aatgggttata accattttcc aggaagaaca ttaaagaact ttccattggc 480
attatccagt ttccctcaaa atactgggtt tttttatatt ggctnctaag cagctatgaa 540
tccagtttct cagaagccct tgtctcaagg catttgtttc cagattacct tgtagcatc 600
cacactatgg gctattttag aaaaacaaaa aaagtatcaa aatcatatag ctatgatttt 660
cctgtgcttg aaggagcctt aaagctcatc tagtccagcc agtatttgtt catccaaatt 720
ctgccaagaa atctctattg tcaagatatt ctttaccatc tttgggacat tctcattatt 780
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aaa 843

```

<210> 206



<211> 2286  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2262)..(2262)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2264)..(2264)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2272)..(2272)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2278)..(2279)  
 <223> n equals a,t,g, or c

<400> 206  
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 gctctcacc cataatgctc cggtcctctt tttactgtgg agtcaacgat gacaccatct 240  
 cattgattat ggcaccagga agtctgaagg ttccacatt cgatgatgtc aacctaaacc 300  
 agcagccatc ccgcttgctc ctcttaggca ttccaggctt cctttgggat ttcagggtgc 360  
 ccatgatctt gatgtgctgc taggctggag cacacactgg ccattactga acacagccat 420  
 attagggaaa gcaaaaaaac ccaaaaaatc ctctattgta tatttattca acaactgttt 480  
 atgtttccag gacaactgca aagaaaacaa gctgaggtgg ttatactgtt gctgttaaaa 540  
 gttggatatca gtaagatttg tgttttgtga taatccctaa atcaacatac cacttgtaaa 600  
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 tactaatcct agtccttttc ctgaggtaga ttttaaacag tattttttaa gtccaagaca 720  
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 gaataggctg accacatatt atgccagtga ccagtatgac aggagatggg gccctgctgc 1200  
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 aagaccacca aacgcagggt ggactctgct cattattctt tgaccagaa agactggaga 1560  
 aggtatgtgc ttttaagtgt gctctacctg aaaagaaatc ctttaaatta cctatggaag 1620  
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 cagtgtccac aaatctgaat attaggggca tgaatttagg cttaccatct gatttgtaat 2040  
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 tagatcattt cacctgatgt ttttgaagca tcctaagtag agtagagtag aaaactgatt 2160

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tctttgttaa ttgtacactg aataatgcct tttaaaaatc aaaataaaat taacaaataa 2220
tggtgaaaaa aaaaaaaaaa aaaaaaaact cgagggggggg cncnaaaaca antcgacnna 2280
tagtga 2286

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<210> 207
<211> 1240
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1225)..(1225)
<223> n equals a,t,g, or c

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<400> 207
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aaacatgata ccccacgccc agccaacaca aaacttctga tgctctgttt tctcatctgt 120
gaactggagc taaggctaag tggctgtgtt gttaataaag agtttgaatc agatggcctg 180
gcatgaagag tcaactggcct gagagaatgt caggggcatt tgtaaattgt taaagggtctg 240
aaaaatcctg agggattatt attattgcta ttgttggtat tattcacaga cacatccaac 300
agccattgtc tgccctccta tctgtcatgc tttctgcacg agcgtcagcc tgagcttcaa 360
tctgtgtgta tatctgcagc ttacgtcctt gccacccctc cagaaccagc tttcatcctt 420
gtaggttttt ccgaagcagg atttgcacaa gtggcgtgtt ttcttaagta tttattttgc 480
aggccattta ctccggcatgg ctatttttac agtgggtaag gagcaaggct aaaaataact 540
tagctcataa ccagacaggt tctgcatttg acatttacgt ggaattcatt tgcattcat 600
ttgttcgcct ttctgtttaa caggtagaat gtaagaaagc tcagccgaaa gaagtcattg 660
tcccacctgg gacaagaggc cgggcccggg gactgcctta cccatggac gcgttcattg 720
ttggcatggg gatgctgggt gactctggac aggaccgcag gtcaccatgg actgggaggg 780
ctatggaggg ctctactccc aactgggtca cctaccagtg gggcaaacct cttcacctt 840
ctaagcctca gtttccttgt ctgtagatga ggatgataat tcccgttcc aagacagttg 900
tgatgattaa gtgtgggtgt gtgtgtgtgc atgcatgtgt gtgtgtgtgt gtgtgtttgt 960
atataataa ttgccccatg cctggcttat aggatattgt agactatttt ctctcttttc 1020
catctccttc ctcaaaagaa ggaaaagtcc ccctctattg cctcagccct ctcatctgag 1080
tgaggattct taagatgtaa ggactcctgg ctgacttgac ttgtgtgggc taaggctacg 1140
ttttctaaaa ctkgggagag gaggggaagt gtaaggggtg gcgataatcc tgtctattta 1200
aatgattaac atttttctct tgggntatca aaatttgcac 1240

```

```

<210> 208
<211> 997
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (963)..(963)
<223> n equals a,t,g, or c

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```

<400> 208
ccgactcta ggccggaagc gcgcggagac catgtagtga gaccctcgcg aggtctgaga 60
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cgccccgagg cggtagcttc agagcctcca gtgcctgtgg ggctggaggt gaagttgggg 180
gccctgggtg tgctgctggt gctcaccctc ctctgcagcc tggtgcccat ctgtgtgctg 240
cgccggccag gagctaacca tgaaggctca gcttcccggc agaaagccct gagcctagta 300
agctgtttcg cggggggcgt ctttttgccc acttgtctcc tggacctgct gcctgactac 360
ctggctgcca tagatgaggg cctggcagcc ttgcacgtga cgctccagtt cccactgcaa 420
gagttcatcc tggccatggg cttcttctct gtcttggtga tggagcagat cacactggct 480
tacaaggagc agtcagggcc gtcacctctg gaggaacaa gggctctgct gggaacagtg 540
aatggtgggc cgcagcattg gcatgatggg ccaggggtcc cacaggcgag tggagcccca 600
gcaacccctc cagccttgcg tgcctgtgta ctggtgttct ccctggccct ccaactcctg 660
ttcagggggc tggcggtagg gctgcagcga gaccgggctc gggccatgga gctgtgcctg 720
gctttgctgc tccacaaggg catcctgggt gtcagcctgt ccctgcggct gttgcagagc 780

```

caccttaggg	cacaggtggt	ggctggctgt	gggatcctct	tctcatgcat	gacacctcta	840
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tctgtgctag	agggcatggc	agctggcacc	tttytytata	tcaccttityt	ggaaatcctg	960
ctntttcatc	ccaaatttaa	gggggtttca	agaagaa			997

&lt;210&gt; 209

&lt;211&gt; 1167

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (432)..(432)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 209

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gcagatccca	ccggctagcc	gcgcctacac	cactgcctgc	gtcctcacca	ccgccgccgt	120
gcagttggaa	ttgatcacac	cttttcagtt	gtacttcaat	cctgaattaa	tctttaaaca	180
ctttcaaata	tggagattaa	tcaccaactt	cttatttttt	gggccagttg	gattcaattt	240
tttatttaac	atgatttttc	tatatcggtt	ctgtcgaatg	ctagaagaag	gctctttccg	300
aggtcggaca	gcagactttg	tatttatgtt	cctttttggt	ggattcttaa	tgaccctttt	360
tggtctgttt	gtgagcttag	ttttcttggg	ccaggccttt	acaataatgc	tcgtctatgt	420
gtggagccga	angaaccctt	atgtccgcat	gaacttcttc	ggccttctca	acttccaggc	480
cccctttctg	ccctgggtgc	tcatgggatt	ttccttggtg	ttggggaact	caatcattgt	540
ggaccttttg	ggtattgcag	ttggacacat	atattttttc	ttggaagatg	tatttcccaa	600
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tgacagcttg	gcagatttta	actccagaag	cactttatga	aatggtacac	tgactaatcc	900
agaagacatt	tccaacagtt	tgccagtggg	tcctcactac	actggtactg	aaagtgtaat	960
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acttgatttt	tatggtataa	gcagagcctt	ttcttcctct	tcttgataga	tgaggccatg	1080
gtgtaaatgg	aagtttcaga	gaggacaaaa	taaaacggaa	ttccattttt	ctctcactgt	1140
aaaaaaaaaa	aaaaaaaaagg	cggccgc				1167

&lt;210&gt; 210

&lt;211&gt; 1338

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 210

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caagtcacaa	attggtccag	ctgtgcttg	cgtgtctttg	catggcacc	ccacaccaac	120
aagtttgtag	tggccctgct	agatgactca	gtccgtgtgt	ataatgccag	cagcaccata	180
gtccccctcc	tgaagcaccg	gctgcagcga	aatgtggcgt	ctctggcctg	gaagcccctt	240
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acctccttgt	ctacccgacc	ctcttctggc	tgtgcccagg	tgctgtctca	ccctgggcat	360
acacctgtta	ccagcttggc	ctgggcccc	agtggggggc	ggctgctctc	agcttcaccg	420
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ctctaagaat	aaataagttt	tccttttgtt	ttccaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaaaaaaaaa					1338

&lt;210&gt; 211

&lt;211&gt; 1892

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 211

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tgttgatctt	caaaaaaaaa	aaaaaaaaaa	aa			1892

&lt;210&gt; 212

&lt;211&gt; 646

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 212

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tacagacttc	caagaggctg	attctggctt	caagatggag	ccttggagtt	ggtttttttt	180
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aattctgctg	tgtgtactgt	cttttggttg	aaacaaatta	tgaacagtga	ctaataataa	600

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646

<210> 213

<211> 312

<212> DNA

<213> Homo sapiens

<400> 213

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gggtgcattt	gtgtgtgcct	tccagagcca	gtggactgg	gtgtatccaa	tgatgccacc	180
tctgaaacct	acagaaccac	tatgctttgc	atgtgtaccc	tgcagggtct	gagggccagg	240
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<210> 214

<211> 1237

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (942)..(942)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (949)..(1184)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1187)..(1187)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1194)..(1194)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1196)..(1196)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1218)..(1218)

<223> n equals a,t,g, or c

<400> 214

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ttgggtgtgg	caccttgga	gctgaagata	ttccactgcc	aagtaacagc	ctgcctcatc	180
tatatcaata	tgtatttata	aattatcttc	ttagcatttg	tcagcattga	ccgctgtctt	240
cagctgacac	acagctgcaa	gatctaccga	atacaagaac	ccggatttgc	caaaatgata	300
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attttaatat	ccaattgcct	tgtaattcga	cagctctaca	gaaacaaaga	taatgaaaat	540
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tgctttgttc	cttaccacat	tgtccgaatc	ccgtataccc	tcagccagac	agaagtcata	660
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1020
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1140
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnccnaat	gggncncgcc	1200
cctgggttcc	gggccccntt	taatccccgg	gcgggggt			1237

&lt;210&gt; 215

&lt;211&gt; 864

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 215

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&lt;210&gt; 216

&lt;211&gt; 3194

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

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<210> 217

<211> 1258

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1196)..(1196)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1200)..(1200)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1237)..(1237)

<223> n equals a,t,g, or c

<400> 217

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nagatggcgc tacgtctgct gcggagggcg gcgcgaggag ctgcggcgcc ggcgctgctg 60

```

```

aggctgaaag cgtctctagc agctgatata cccagacttg gatatagttc ctcatcccat 120
cacaagtaca tcccccgag ggagtgctt tatgtacctg gaaatgatga aaagaaaata 180
aagaagatcc catccctgaa ttagattgt gcagtgctcg actgtgagga tggagtggct 240
gcaaacaaaa agaatagaagc tcgactgaga attgtaaaaa ctcttgaaga cattgatctg 300
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```

&lt;210&gt; 218

&lt;211&gt; 883

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (19)..(19)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 218

```

gtcaccgtgg gcgtttaant atgatccccg gctcagattc gcagactgca ctgaacttcg 60
gctctacgtt gatgaagaag aagtctgac ctgaggggtcc cgcgctgctc ttccttgaga 120
gtgaactttc catccggata ggtagagctg ggcttctttc agacaagagt gagaatgggt 180
aggcatatca gagaaagaag gcggcagcca ctggccttcc agaggggtcct gctgtccctg 240
tgcttcttcg agggaaatctg gcacagcccc gcggcagcag ctggaggagg atcgactgc 300
tcatcttggc catcactata cacaacgttc cagaggggtct cgctgttgga gttggatttg 360
gggctataga aaagacggca tctgctacct ttgagagtgc caggaaatttg gccattggaa 420
tcgggatcca gaatttcccc gagggcctgg ctgtcagcct tcccttgcca ggggcaggct 480
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tgagcgttgg cctgggctag ggctgagacg cttcggaccc cgggaaaggc catacgaaga 780
aacagcagtg gttggcttct atgggacaac aagcttcttt cttcacatta aaactttttt 840
ccktcctctc ttcttcaaaa aaaaaaaaaa aaaaaaactc gag 883

```

&lt;210&gt; 219

&lt;211&gt; 1465

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 219

```

ggcacgagcg agccaagttt gcaccactgc actccagcct gggcgacaga gcaagactca 60
gtctcgaaaa aaaaaaagtt ggaagcagaa gtaaaaaaca tggtaaaaga tgagaactaa 120
ataaatataa taattgagag gtctgcatta gatgtggcag ggagaacaag caaaaagaga 180
tttcagagaa gatcactgga attggcagag gccttgaagg gcagagtcta gcatacagaa 240
gatgtaaagc cacattctgt gaaggtaagt agatgtgttt acctcttttg cactgtactg 300
gtgcattatg gggtaaatrt gtattacttt tctgtatttg cttagcacag agttttgcct 360
atagcaggca ccagactgtg ggcttggtag tacatgacta ttggtgatta cagatcaaaa 420

```



```

aggacttgaa atgatcagtt taagggtcttg atgggtattg aagactcaaa ggatgatggc 480
accctgggag tgatccacag aaggacagat tttttgaaga tgtaataaac taaagacaac 540
atggatgtta aatgatgaaa aaaagtggga tggaaaataa accattggat ctgcyctctgg 600
agtccaagaa gaattattatt ctctctacct ccccttact ctggctcttc ctattgtagc 660
cacatgggtc agtaatgcca ttgaaaaaca aaattttaga ctaagtgggg tcgcagaaat 720
tttggtctat cttaaattga tgacatctta ttaaagaaty tattgtataa agtgtgctta 780
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gaaatattaa aacttgaaag tactaagact tgatgatgaa ctagatgtgt tagataagag 1260
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aaagcttgat aggaataaaa catgagatag cacatggatc tattacaagt ttttgaaatt 1380
gagcttgaaa agctacttca aaaaataaat tctaggccag gtgtgagycg atgcgcttga 1440
ttaaaaaaaa aaaaaaaaac tcgta 1465

```

<210> 220

<211> 974

<212> DNA

<213> Homo sapiens

<400> 220

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caggagtaaa gaactttatg agttcatgag aacctaaggc tcagtatttg aaaattactg 60
acttatgaga aagcaggcat gtaaaataaaa aataaaaaat gttggcccta gattttgata 120
tgtgtgtggt gtgtggtgta ggagaggccc tgatatttac ctgtaagtgt tagagttgta 180
tgaaaaaggt ggcaagattg agtagcttag ggcattgtgt gtggaggctg tatgctagga 240
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cccaaattat tttcaagcat ctacttcatg ccagaccttg ttctagatac cggagataca 360
acagcaaaaa tacagatctt gcccttatga agcttaaat gttgaggcag gcagacagtg 420
ataaataaat acatagaatg ttgggaaaga aaataagagg atttgagagg gtggaatggg 480
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ggtgagggaa gagctttcta cacagaagga acagctgggg gaaggagca cgcttggaat 600
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atgtcaaaac ggtactaatg gaagaagtca tgtcagacag ggtcttgccc attgtaagga 720
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caccatcttt aaaagggacc ccttghtaagg attcagaaca gacttgaggg gaaaacaagt 840
agaagcagca gggggactag ttagggaggc gaggtgggag gattgcttgg gcctgggagg 900
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ccctgtctca gaaa 974

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<210> 221

<211> 1010

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<400> 221

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tgggacatat ggtaaggata tttttagttt ggcaggaaac caccatactg tcttccaaag 180
tagctgtacc attttgcata cccaccagca ctgaatgaga gttcctgttg ctccacattc 240
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gtatctcact attattttta tttgcctttc tctgatgatg tatgatgttg cagatcttct 360
catatgctta tgtgacatct gtatatctgg tgaaatgtct gctaaggtct tascctattt 420

```

```

tttaatargg atggttggtt tccattgtt gagttttaag agttccttat atattttgga 480
tatttaataa tactacaaat aaacagtcct ttaacagata aatgttttgc aaatattttc 540
tcttagtctg tggcttctgt ctttatccccc ttgaagggtg ctgtcacaaa gcagtttatc 600
tttttttctt tttttttttt tttagagcgt agtcttgctc cagcctgggt ggagagcgga 660
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cacgcctgtg atcccatcac ttggggaggt cggagggtggg aggtggggaga atcgcttgag 780
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```

```

<210> 222
<211> 1369
<212> DNA
<213> Homo sapiens

```

```

<400> 222
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ggtgaaagta ctgaaatccc accttatgtg atgaagtgtc cgagcaatgg tttgtgtagc 180
aggcttcttg cagactgtat agactgcaca acaaatttct cctgtacctt tgggaagcct 240
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ctatatgtca attggactgg aggcataaag tggctctacg ctctggctct aagcatcacc 540
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```

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<210> 223
<211> 596
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (8)..(8)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (28)..(28)
<223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (61)..(61)  
 <223> n equals a,t,g, or c

<400> 223  
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 naaagctgga gctcccaccg cgttggcggc ccgctctaga actagtggac cccccgggct 120  
 gcaggaattc ggcacgagtc ctgacctcag gtgatccacc cacctcggct tcccaaagtg 180  
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 ctacagcctt gagaagtaga taggcatacag agtatggtag tataggaatc agaaaaattc 300  
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 tctgtgtgtt tctgtgtctc aagactgggc tcacattctg gctttgtcca taacaatgct 420  
 ctgggatttc agggagttcc ctcatctgta aaatgagggg gtcagagcag gtgatatcca 480  
 tgtttcttcc ctttctgata ttgtgtctg tggcatattc tttgtatggc gaatttaata 540  
 aattatatta atgtgtctct ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa ctcgta 596

<210> 224  
 <211> 629  
 <212> DNA  
 <213> Homo sapiens

<400> 224  
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 gagcctctcg cacctcaaca tcacgtcac ccttttgggt ttagccagc gttatttagc 180  
 aaatttctcc agctgcaggg aaggatcaga gcactatctt tttttttttt ttttctcct 240  
 ggagccagga ctgcacaagg caatggccaa atttagttga attcagccta ccatcctttg 300  
 ctgatgactc agctctatgc caagtactgg agccacagag atgggtcagt cccagccctc 360  
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&lt;210&gt; 226

&lt;211&gt; 921

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

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&lt;210&gt; 227

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

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&lt;210&gt; 228

&lt;211&gt; 1871

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

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&lt;210&gt; 229

&lt;211&gt; 2497

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

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<211> 1217

<212> DNA

<213> Homo sapiens

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<400> 231

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&lt;210&gt; 232

&lt;211&gt; 1402

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 232

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&lt;210&gt; 233

&lt;211&gt; 1417

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 233

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&lt;210&gt; 234

&lt;211&gt; 1173

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 234

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&lt;210&gt; 235

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 235

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&lt;210&gt; 236

&lt;211&gt; 1146

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 236

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aaattc						1146

&lt;210&gt; 237

&lt;211&gt; 1346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (537)..(537)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (880)..(880)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1115)..(1115)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 237

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&lt;210&gt; 238

&lt;211&gt; 556

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (513)..(513)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 238

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ctgggcccgc	cgttta					556

&lt;210&gt; 239

&lt;211&gt; 1974

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

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&lt;210&gt; 240

&lt;211&gt; 1079

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 240

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&lt;210&gt; 241

&lt;211&gt; 2103

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2101)..(2102)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 241

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nna 2103

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<210> 242

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (456)..(456)

<223> n equals a,t,g, or c

<400> 242

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<210> 243

<211> 1212

<212> DNA

<213> Homo sapiens

<400> 243

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ccacagtggg ttccattatc attgtctttg accctcttgg ggggaaaatg gctccatatt 600
cctctgccgg cccagccac ctggatagtc atgattcaag ccagttactt aatggcctca 660
agacagcagc tacaagcgtg tgggaaacca gaatcaagct cttgtgctgt tgcattggga 720
aagacgacca tactcgggtt gcttyttcga gtacggcaga gcttttctca acctactttt 780
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ccaggaagct gatctggatg cagaattaga aaactgccat cattacatgc agtttgacg 960
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aggttgaggc gggagaatcg cttgaaccag ggagttggag gttgcagtga gtggagatca 1140
caccattgcc ctgcagccta agcaacagag caagattctg tctcaaaaaa aaaaaaaaaa 1200
aaaaaactcg ag 1212

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<210> 244

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (580)..(580)

<223> n equals a,t,g, or c

<400> 244

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gctgcacgtg ggagatgctc cgtggatggt tgtagaacgc tggcttccgt gtttcctcgt 120
tgtggctgtg gtggtgtggg tctttgcctg tggaccctgt gaagacaaag aagacagttt 180
tggatggtca agctattttc ttgcttcagg gctccctccc ctgctttttg aagcctcaca 240
aaccaggact gtgagggcag gaaggcttgg ggtctttgtg tgcctgagcct cattaggggt 300
ttaagaacct ccctcctttc atctctagct tacgagaggg atgattcatt atcttcctc 360
ctcaggctgc agtagaagca gacagtctct gcctccctgc ttgcctttcc tccctcccat 420
tactgttga ttattgccct caagaataac aggttgccca gctactcgag argcttaagt 480
gggaggattg cttgacccca ggagttcgag gctgcagtga gctatgatcg cttcactgcg 540
ctatagcctg gcagacacag agagacccta tctcaagcan acagacaaac aaaaaaaaaa 600
aaaaaaaaaa ctcgag 616

```

<210> 245

<211> 575

<212> DNA

<213> Homo sapiens

<400> 245

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gcagacttaa ccccatgtgg caatcaccaa ggcttatggc ttgtgtcctc cagaactgtg 120
gccagagctg tacctgggcc cctttgagct gaggtggaag ccagagtctg aagctcagca 180
gggcagtarg gccctgggcc tggcccttga aaccattctt ttctcctaag cctctgggcc 240
tttgatggga rgggctgtcc tcaagatatt tgaaatgcct ttggagggtt tttgccttgt 300
cttggatatt ggcttccttt tagttatgct catctctcta gcaagtgaat gtttcacaa 360
ctgcttggat tctttctcta ccacagarcc aggttgcaaa ttttacaac ttttactc 420
tgtttcctct ttaaatataa atttcaatgt taagtcactt ctttgctccc atatctgatt 480
taggttgctg gaagtagcca agtcacctct tgaatgcttt gctgcttaga aatttcctct 540
actaggtagc ctgggtcatc acacttaagt tcaaa 575

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<210> 246

<211> 703  
 <212> DNA  
 <213> Homo sapiens

<400> 246  
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 tgctcattta ttttgtcatc atttgctcat tttattacca gttattgagw gcctactgtg 120  
 taccaggcac tgggcaaggg gcattctgtg agagagggtg tggtagctgc gggcttaagt 180  
 agtccgtggg cttgtgagga aaacgctaga ttagatcttg attactgtaa atgtcaarta 240  
 tggccaagtg tgggatttcg tggcaggagt gagctttcct ggaatttgct tttcttgcc 300  
 caatttgccg gatagtcatt tcatgctagg gatgttttaa agtctctggg gaggccctgc 360  
 agtgtagagg aaaaatgctga tccacaccag aaatgcgaac ctggctctct gcccttgggc 420  
 aagtcactta accctcctga gcctcagttt ccatctgtca cttagagctg attataccta 480  
 cttaacaccc aggtcttttg tgaggggcat tatctcatta gagataatgt ttttaaaagc 540  
 tctttgtaaa ttgtgtagca ttcaaagga agttattgtt atttttatta ttgagtgcct 600  
 tctaattcaa cactgggata gtaacaaaag aagagagggg ttattatcac ccctcttccc 660  
 tgtcacgttt agattggggc aaggaaaggt tctcacctg cga 703

<210> 247  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 247  
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 atttaaacag catgaacctt ggtggccaaa tagatcaatg acaaagagga gaaaacctag 120  
 atacaggttc atttttgcct tatatgcttt gagattagtg tttctattta gagctgtgac 180  
 taatacagat gcatcacggc tgagagcaaa gcgagggtgaa tgtccctatt aattgccacc 240  
 atggtgcgag gctggaatga ggggtgtggc agctaagagg ggatttgctc ttcttgccct 300  
 agaagtctct cattgtttcc tgtcctgtct tgtgtccagc tgcttagcac acttcctttt 360  
 ggtatttaat gctttttata gctggaaccc tgagggttct cagaaatctg cacatgctta 420  
 ctagatggtg ctctggattt tctttaaaga taggaagaaa aaggcaaagg cagggtctgtg 480  
 acgcttctta c 491

<210> 248  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (536)..(536)  
 <223> n equals a,t,g, or c

<400> 248  
 ggacgagtgg ggagctggaa ggaggatgga gtgggaagat aatcttccct tggagttcag 60  
 ctgtcccgtg accaaactcc tctctgtccc cagctggact cctctagatg ctcagatgct 120  
 ccttctcttc tttccttctc tgtcacacca ttctctgtt ccttggtctc tctgctcatc 180  
 tccttggtga gscawaggtt tggggtttat atgagtacag gatagggtgac atgggtggatc 240  
 aaaaggcaac attttgtgtg caaaaacagg aatgcctgtt cccattaggg tcatgggttk 300  
 ccagggttga ggggtggggc tttgctaggg aaccaccctc ttctaccag tattttcctg 360  
 tctcctgtct gtatcaatag gtacacaata twtattaaat taatkaatga ctatacatta 420  
 tgaaatggga aatgcaaggt ataaaggaga attgctgtcc ttgaaaagaa atttagtttg 480  
 tttttttgtt gagatggagt cttgctctaa gctagagtgc agaattgtaat caaggn 536

<210> 249  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 249

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atttgtataa acaacagtat gatttagttc tctaataata taatgcaata taacaaaatg    180
agtcatttca actgttggtcc attcaactat accttaatat atattatttt attgatgctt    240
atctatgtat acattagttc tgtgcacagt ctagtggata gtgatctgtt aaatggataa    300
atgaatgaat ggctgaagtt ttatccttct gaatggatga gtggcctctc tagttcattt    360
tcaagcctcy agggcyatga tacakgtttc ctatttccag atttttcttt atgttctctc    420
tttattt                                         427

```

<210> 250

<211> 796

<212> DNA

<213> Homo sapiens

<400> 250

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ggcacgaggt gacgtgtttc tgcattctgtt gccatgacaa gctccctgct tcacccattg      60
ctgtatcccc agcacctctc tcaactgcctg gcaagggaaa gcactcagaa gacgctgaat    120
gaccargtag agtgatgggt tgtacagcac tgttactcct tttccatctc tgtgtcccat    180
gtgaacctta tggcacccat gagaaggagc ttgtaccagg tttatacttt ctagtttaca    240
gatgagaaaa caggatcaga gtggtacaga tattgggtcta agtcacagag aaagtgaatt    300
gtaaaagcag aaacagagca caggctgcct gacttctagt ccagtgcctt ttgctcaaat    360
tgccctctat ttctcaggtt attcttgaaa tggcagatgg ggattctgtt taatgaaaca    420
aaagtgaaca ttctttcttt cttggagaga aggtggagac agggctctac tctatcacac    480
aggctggagt gcagtggctc aatcatggct cactgcagcc tcaatctcct gggctcaagt    540
gattcttcca cttagcctc cttgactcac tgggactaca ggtgcacacc accatacctg    600
gctaattttt aaagtttttt gtagagacag ggtctcacta tattgtgcat tctggtcttg    660
aactcctggg cccaagtgat cttcctgcct cggttttcca aagtgtgga attacaggca    720
tcaccccat gctagcctg aaaattcttt ctatgtcctt aacatcttct ttcccagtat    780
ttctccatcc actcga                                         796

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<210> 251

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (492)..(492)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (494)..(494)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (522)..(522)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (526)..(526)

<223> n equals a,t,g, or c

<400> 251

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ggcacgagaa aaattctcaa gacccatgtg aaagtcagag aggggtgtgg tggcctggct      60
ggcctgaaga caggtgttct gatgattctg gcaggggccc ccatttgcct ggcaactgaaa    120
ttatattagt atctttactg tatgagcacc gtgcccacatc gggcaagctg tgactcctgt    180
caccaaacac tcaggaacca ttgcttttgg ggccctccagg atggtttcat ttgtaggcat    240
ctgccttctg ttggggtcct tttttctctc ttctctacag gggacaatat ggcaccaccc    300

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agcaaacct	gatgggagtg	gacatggact	accctcattt	gcagtaatca	tgggcaagca	360
ggtggtaccc	acagtgtact	ggagaatgcc	ctaccctcgw	aggggggggtc	ccggtaccya	420
attcgcccta	tagtgatcgt	attacaattc	actggccgctc	gtttacaaac	gtcgtgactg	480
ggaaaacctg	gngntaccga	acttaatcgc	cttgcgagaaa	tncccnt		527

&lt;210&gt; 252

&lt;211&gt; 1037

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

ggcacgagct	cgtgccraat	tcggcacgag	ggcatagtc	cacagaggta	aaagttaaca	60
attctgatgc	tcttgatgt	gcataccaga	ggctctagg	aagaattccc	tctttctttc	120
ttccaccttc	ttgtggctgc	tggcattctt	tggcttggtg	tcacatcact	cctatcttga	180
aggccagcat	cttcaaatct	gtttcttctt	cacatagcct	tctgtgtgtg	cagtgcctc	240
tacctctctc	ttataaagac	atttgtgatt	aaatggagg	tttaggataa	tctcgtcaag	300
atccttaact	taatcacac	tgcaaaaacc	tctttcccaa	ataaggtaac	attcacagg	360
tccagggtt	aggacctatt	atctttggta	agtattattc	agcctaccac	aatagctaaa	420
acaattctga	aaaagaagaa	taaagtgaga	gaaatcagtt	tatctgattt	cgatacttat	480
tgtatagcta	tggtaaataa	ggctgcatgg	tattaaagaa	aggacatata	tgaatgaaac	540
agaatagagg	acccagaaat	agaccacac	aaaggagccc	aaattatttt	taaccaaggt	600
agaagacaat	ttattggagg	aaagacagcc	ttttcaacaa	atggtactat	aacaattaga	660
tatccatagg	caaaaaaaaa	aaaaagaatc	ttgatctaag	gctcacacct	tatataaaat	720
aatattaaac	tcatggccag	gcacagtgac	tcatgcctat	aatcccaata	cactgggagg	780
ctgaggcaag	agtatcactt	gaggccagg	gttcaagact	agcctgggca	acacagtga	840
actctatctc	tacaaaaaaaa	ttataaacta	gctgggcatg	gtggcacatg	cctgtagtca	900
caactactca	cgaggctgag	aagatcactt	aagctgagtt	gttcaaggtt	ctaattgagct	960
acaatcgtgc	cactgcactc	cagcctagg	gacagacaaa	gaccccatct	caaaaaaaaa	1020
aaaaaaaaaa	actcgta					1037

&lt;210&gt; 253

&lt;211&gt; 985

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

gtcggcacga	gtaataaaat	ctaacacctg	cttagagacc	attctttag	tggacacaaa	60
gtgccagcct	ctaatactcc	ttccttactc	ttcatggaaa	ccttgaagag	tgattaaaaa	120
tagtactgtt	tatgtctctg	accacagagc	cagtcatttt	cagcacttaa	ctgaaattgc	180
tcatgatagt	gtttctaaca	atggccacat	aagtggcaaa	tcccttaaga	attttgccct	240
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gaggccgarg	tgggtggawc	acctgaggtc	aggarttcaa	gaccagcctg	gccaacatga	780
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atcccagcta	ctcgggggct	gaggcagaag	aatcgcttga	acccgggagg	cagaggttgc	900
agtaagccga	gatagacca	tcgcactcca	gcctagggga	caagagcaag	acttcatctc	960
aaaaaaaaaa	aaaaaaaaac	tcgag				985

&lt;210&gt; 254

&lt;211&gt; 925

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

ggaaatagta	ggaaagtgga	gcctccagaa	ccaagagaga	caggagtggg	aggcaggctc	60
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cagcacgtac	acatggaaga	gaggtatgaa	ctctcattgc	catgggcaga	gccaccaga	120
ccactgctga	gcattctggg	aagctcccag	ggccctatca	gtgcatggca	tggaagctgg	180
aatcacttta	tttgaatagt	gaagtctaca	acaacctctg	aagtctgaag	acgagaatcc	240
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aacatgtctc	cagagtatag	ccaaacatgt	ctccagaata	cagccattca	acatccagta	420
atcaaggaga	aggatatgca	gccttgggct	ggcttgtgcc	ctctgcttgt	tttgtggata	480
tctggtcatc	tccattgtat	atcagcactg	ctgcaggaga	gaggtgtggg	agtgtcatta	540
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gtgggttgta	gcactctactg	aggattgcaa	attaggacaa	atcattatct	tctccctctt	660
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cacacacaaa	cacacacact	tagactagaa	gagtcattta	acatgagaac	atgaacatct	780
agagatatgg	tttggctata	tccccacca	aatctcatct	tgaattgtag	ctccaataat	840
tcccatatat	tgtaggagg	acttgggtgg	agataattga	ataatagggg	cagtttccca	900
catgtgttct	catggtagt	aataa				925

&lt;210&gt; 255

&lt;211&gt; 841

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 255

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caacagctgc	tcgctgttcc	catgtcctct	ctccagcttt	gctgtgttcc	tctgtacct	300
aatctcagtg	actgtgaaag	gacatttgtt	ctgagccatg	gccagccgct	ggctggcccc	360
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g						841

&lt;210&gt; 256

&lt;211&gt; 2128

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 256

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&lt;210&gt; 257

&lt;211&gt; 905

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 257

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ctcga						905

&lt;210&gt; 258

&lt;211&gt; 2642

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

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ac						2642

&lt;210&gt; 259

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 259

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tctgttcaga	tcttttgccc	gtttttgttt	gcttgcatgt	ttgtttgtgt	ttgatttttt	300
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ttgataaatg	gcttttaaat	aataatctgg	cggggcgcag	tggctcatgc	ctgtaattcc	480
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ccatctcaaa	aaaaaaaaaa	aactcgag				748

&lt;210&gt; 260

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 260

ggcacgaggt	gtgtttgtgt	gtgtgtgtgg	tggtgtgtatg	tggtgtgtgt	gtgtatgtgt	60
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gtggtgtatg	tgtgtgtgtg	gtgtatgtgt	gtgtttgtgt	gtgtgtggtg	tgtgtatgtg	120
tatttctttg	aatgagaaat	tggctcccat	gattatggag	ctgacaactc	ccaaggctctg	180
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&lt;210&gt; 261

&lt;211&gt; 1894

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 261

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cttttacata	gaaatatgtg	gtattaacag	agggatgtga	ttagaatacc	agcgggaagct	360
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&lt;210&gt; 262

&lt;211&gt; 1355

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1327)..(1327)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 262

gcccctgctg	gatggcactg	tgggtaacct	gcaccccttc	actgtgcaca	tggttctcat	60
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catttccctt	ctgtgtcctc	tttcgtgac	ttgaggtggg	acttgggttt	gaaggctttg	180
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&lt;210&gt; 263

&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 263

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aaaatgctta	caatgtaagt	gtattaaaga	ccattttaag			940

&lt;210&gt; 264

&lt;211&gt; 1382

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 264

cccacgcgtc	cgctgaattg	cgcccgatg	cgccgctctg	tggagtgcac	ctgggggttg	60
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aaatagattt	attttttttc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1380
aa						1382

&lt;210&gt; 265

&lt;211&gt; 1365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 265

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&lt;211&gt; 791

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 266

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&lt;211&gt; 830

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 269

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&lt;211&gt; 755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; n equals a,t,g, or c



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&lt;211&gt; 1939

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 271

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&lt;210&gt; 272

&lt;211&gt; 1126

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

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&lt;213&gt; Homo sapiens

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&lt;210&gt; 274

&lt;211&gt; 2410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 274

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&lt;210&gt; 275

&lt;211&gt; 2131

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

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&lt;210&gt; 276

&lt;211&gt; 2794

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (164)..(164)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

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&lt;210&gt; 277

&lt;211&gt; 1491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 277

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<210> 278

<211> 1409

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1180)..(1180)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1384)..(1384)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1392)..(1392)

<223> n equals a,t,g, or c

<400> 278

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<210> 279

<211> 1188

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (892)..(892)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 279

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&lt;211&gt; 1623

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

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1623

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&lt;211&gt; 1145

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (386)..(386)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 282

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&lt;213&gt; Homo sapiens

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 <213> Homo sapiens

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&lt;210&gt; 286

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

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&lt;210&gt; 287

&lt;211&gt; 978

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

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&lt;210&gt; 288

&lt;211&gt; 625

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
 <223> n equals a,t,g, or c

<400> 288							
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<210> 289  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (283)..(283)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (691)..(691)  
 <223> n equals a,t,g, or c

<400> 289							
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&lt;210&gt; 290

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

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&lt;210&gt; 291

&lt;211&gt; 1739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

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<210> 292  
 <211> 1677  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1012)..(1012)  
 <223> n equals a,t,g, or c

<400> 292  
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&lt;211&gt; 1084

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

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&lt;211&gt; 2072

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

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&lt;211&gt; 2543

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2538)..(2538)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 296

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&lt;210&gt; 297

&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (35)..(35)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (39)..(39)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 297

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&lt;211&gt; 803

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 298

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 299

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 301

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

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&lt;210&gt; 302

&lt;211&gt; 1340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

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&lt;210&gt; 303

&lt;211&gt; 1676

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

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&lt;210&gt; 304

&lt;211&gt; 1747

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

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aaaaaaa						1747

&lt;210&gt; 305

&lt;211&gt; 1251

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

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&lt;210&gt; 306

&lt;211&gt; 1539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 306

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&lt;210&gt; 307

&lt;211&gt; 2077

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 307

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&lt;210&gt; 308

&lt;211&gt; 2108

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

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<210> 309

<211> 1146

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (857)..(857)

<223> n equals a,t,g, or c

<400> 309

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&lt;210&gt; 310

&lt;211&gt; 1998

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 310

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&lt;210&gt; 311

&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (459)..(459)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (503)..(503)

<223> n equals a,t,g, or c

<400> 311

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<213> Homo sapiens

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<222> (560)..(560)

<223> n equals a,t,g, or c

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<221> misc\_feature

<222> (589)..(589)

<223> n equals a,t,g, or c

<400> 312

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<210> 313

<211> 970

<212> DNA

<213> Homo sapiens

<400> 313

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&lt;210&gt; 314

&lt;211&gt; 1388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 314

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&lt;210&gt; 315

&lt;211&gt; 1537

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 315

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&lt;210&gt; 316

&lt;211&gt; 1782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 316

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&lt;210&gt; 317

&lt;211&gt; 795

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 317

ngaactagta	tattcacgct	ctatgaggcc	gcctcacagg	aaggctgggt	gttcctcatg	60
tacagagcaa	ttgacagctt	tccccgttgg	cgttcctact	tctatttcat	cactctcatt	120
ttcttcctcg	cctggcttgt	gaagaacgtg	tttattgctg	ttatcattga	aacatttgca	180
gaaatcagag	tacagtttca	acaaatgtgg	ggatcgagaa	gcagcactac	ctcaacagcc	240
accacccaga	tgtttcatga	agatgctgct	ggaggttggc	agctggttagc	tgtggatgtc	300
aacaagcccc	agggacgcgc	cccagcctgc	ctccagggtgc	agtacaatga	catttttaaa	360
aatcgccccg	caaaggtctt	tgaattttat	ttcatccaag	aaaatccaca	gctctttaag	420
ctctagattt	gtccaaattt	aaaatcctga	agttagagat	ggattttcac	tccttcctct	480
attcccagga	cctagctttt	tttttttaac	atacacaata	gggatttgat	aagtttctga	540
tggctgcagg	catgtaagag	catttcagtg	gtattgaatc	aatgaagaat	tttgttgaca	600
tgtgaaatct	tataaaaaata	ttctttaccg	aaggactgag	ttatgtggca	gtgggtacat	660
tcattgtttc	atccctcccc	tagtaactgg	gataaatatg	ttgatacata	gtctctctgt	720
ttttctgcat	ttggaagctt	tcagaggaac	ataatgtaga	gggtgttctt	tagcaaagtg	780
cactgatagc	aaaca					795

&lt;210&gt; 318

&lt;211&gt; 1205

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

ggcagagctt	ttgtgcagca	cccttttaag	ggtgactcgt	cccacttggtg	ttctctctcc	60
tgggtgcagag	ttgcaagcaa	gtttatcgga	gtatcgccat	gaagttcgtc	ccctgcctcc	120
tgctggtgac	cttgctcctgc	ctggggactt	tgggtcaggc	cccagggcaa	aagcaaggaa	180
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gcagcttggg	gcaaggtgct	ggagaagtct	ggcttcgcgt	cgactgccgc	aacacagacc	300
agacctactg	gtgtgagtac	agggggcagc	ccagcatgtg	ccaggctttc	gctgctgacc	360
ccaaatctta	ctggaatcaa	gccctgcagg	agctgaggcg	ccttcaccat	gcgtgccagg	420
gggccccggg	gcttaggcca	tccgtgtgca	gggaggctgg	accccaggcc	catatgcagc	480
aggtgacttc	cagcctcaag	ggcagcccag	agcccaacca	gcagcctgag	gctgggacgc	540
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cgatggaaga	gctgggaaaa	gccaaaccca	ccaccgacc	cacagccaaa	cctaccagc	660
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acccctacag	atctgacctc	tccctgacag	acaaccatct	ctttttatat	tatgccgctt	840
tcaatccaac	gttctcacac	tggagaaga	gagtttctaa	tcagatgcaa	cggcccaaat	900
tcttgatctg	cagcttctct	gaagtttgga	aaagaaacct	tcctttcttg	agtttgacaga	960
gttcagcaat	atgataggga	acagggtgctg	atggggccaa	gagtgacaag	catacacaac	1020
tacttattat	ctgtagaagt	tttgctttgt	tgatctgagc	cttctatgaa	agtttaata	1080
tgtaacgcat	tcatgaattt	ccagtggttca	gtaaatagca	gctatgtgtg	tgcaaaaata	1140
aagaatgatt	tcagaaaaaa	aaaaaaaaaa	aaactcgggg	ggggccggta	cccattygcc	1200
ccaag						1205

&lt;210&gt; 319

&lt;211&gt; 1742

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

ggcacgagct	cgtgccgctt	tgtagtctag	ggagtttaat	taaagtaagt	ggagacaaaa	60
gtactctttt	gagagctgtc	atttctctta	gtgtgacgct	attaataatg	tagtgtaatg	120
ctatttttga	agtttggttc	tttcttttct	ttttgtcttc	ctctgactct	tttctgtatt	180
ctaaatgaaa	ggggaataat	gcacttagag	gggggcactc	tcctaaattc	actgtctcat	240
gtacgacatt	atctccgact	tcggctctca	tgttttgaaa	aaatacctct	tcacgctctc	300
atthttatth	ttcttcttct	tttattgtga	atctctttta	ccaaaaacat	ttgtagggtt	360
cttcacaaa	atthtttttt	tcaatcagga	tgaaaactag	atcatgatgt	gaccatttca	420
ctgtgagtgt	aacttccctt	tttgacagct	ccattagatc	tgccagggtta	taaatcttca	480
tatttctgac	ttgccttgaa	atcagaaagt	gttttctatta	tgtagtctc	tgtgagcaac	540
aagcatgaag	gaaggcatgg	cagggtatcat	agcccccttg	atgaacttac	ctgtttcaac	600

tcagtgccag	ggcagaacat	ttactgctaa	ccctgatggg	tcaactttga	ttgcaaatta	660
tgtgtggtac	attttgaatt	taaagaatgt	ttctgagatt	attctacgat	cacttgatcat	720
ttttatgtgt	gcagtaatgt	gttgtgtata	acttggattt	caacaatatc	cattgtttga	780
aagttagaaa	atattctaag	aatactaatt	atcttgctca	aataatcatt	taagtacaac	840
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aaagaaaaag	aaaaaagaaa	aaagaatatt	aggaaaaata	tcttaatgca	aaatatatta	1680
attagtaatc	tgccaacact	gagatgtact	ataaggccaa	gaagaaaaaa	aaaaaaaaaa	1740
aa						1742

&lt;210&gt; 320

&lt;211&gt; 1443

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

ggaaccattg	gcctatatgt	ggttggatct	attattatga	gtgtgtgtgt	ttttgtgcc	60
ggaaacattg	tagggaagta	tggaaacacga	atltgcccctg	cttttttctt	aagcatacca	120
tatacttgtc	ttcctgtctg	ggctgggtttc	agaatctata	atcagccatc	agaaaattat	180
aattacccct	caaagggtat	tcaagaagcc	caagcgaaag	acctgctgag	aagaccattt	240
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ctaaaggatc	ctgctgctta	tcctaaaatt	cagatgctgg	catatatgtt	ctattctgtt	420
ccttactttg	tgactgcact	gtatggctta	gtggttcctg	gatgttcctg	gatgcctgac	480
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agtgaatgca	gactggagga	gtaacttttg	caaataagat	gaatatgctt	cattattaaa	1140
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tttattgggtg	gctggaaata	tttctattgt	atltctgtgt	atatttttaa	taaaattatt	1380
tttggcctct	taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaactc	1440
gag						1443

&lt;210&gt; 321

&lt;211&gt; 2541

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

tggggaaacg	gtccctctag	aactagtggg	tcccccgggc	tgcaggaatt	cggcacgagg	60
agaaggtcac	taccatcatg	gagatggctt	ccaagatgaa	agacacaggg	ttcatcggtg	120

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tgtctgctgt	ggacattgca	ggcaccctct	cgggctttgt	caccatcatc	ttgggcgtgt	540
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caaatagcaa	tggtggcaga	acttctctga	aacagattca	gtgaccaa	acccaagttt	960
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ctgcggccgc	aagggaattc	a				2541

&lt;210&gt; 322

&lt;211&gt; 809

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 322

ggcacgagga	gaatcatggg	cctctggctg	ggcatgctgg	cctgtgtctt	cctggcaact	60
gctgcctttg	ttgcttatac	tgcccggctg	gactggaagc	ttgctgcaga	ggaggctaag	120
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tattcaaggt	ctgagtcca	cgtggacttc	ttcaggactc	cagaggaggc	ccacgcccct	300
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acggtctgcc	ctgcaaaaac	accaatgggg	tctagtgcag	gtggacactt	tgaaccactc	540
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tgacaattct	gttctgggtc	agctggagtt	ttcttctgtg	acttggactg	ctctacagaa	660
gacatcagcc	aactgcacga	gtcagagtc	agggattgtc	actattatta	ataatgtaaa	720
tggcttcaaa	tgggacactg	cagataaaat	cacaaaaacc	actgttatat	taaagattac	780



acattttcctg gaaaaaaaaa aaaaaaaaaa

809

&lt;210&gt; 323

&lt;211&gt; 1151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 323

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ggcacgagtg tcaatgaaag tgtttctaata gcaactgcga ttgactccca gatagctaga      60
agttttgcaca tcccactcac ccaggatata gctggtgacc caagctatga aattagcaaa      120
cagagactca gtattgtcat tggcgtgggtt gctggcatta tgacggtgat tctaatactc      180
ttaattgtag tgatggcaag gtactgcagg tccaaaaata aaaatggcta tgaagccggc      240
aaaaaagatc acgaagactt ttttacacc ccaacagcatg acaaatctaa aaagcctaaa      300
aaggacaaga aaaacaaaaa atctaagcag cctctctaca gcagcattgt cactgtggag      360
gcttctaagc caaatggaca gaggtatgat agtgtcaatg agaagctgtc agacagccca      420
agcatggggc gatacaggtc cgtaaatggt gggcccgga gtcctgacct ggcaaggcat      480
tacaaatcta gtccccattt gcctactgtt cagcttcac cccagtcacc aactgcagga      540
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gatgtcccat tatgcacat actgtgatga ctttctact ccgaaacctg ctggagcctg      780
cccttggccg tgggggtgtc gccaatcact gctgttcca ctgtgtgtac attttatttt      840
tgagtctttt tctttctcat atacagaaaa atagtatgaa aataaaaata atgtatgaaa      900
cagtattaat gcagaaatgt gctactaatg gatgtctgag tcaccagaaa ttccattctt      960
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ttgtctttaa tacattaaat actgattttg aataaaaatc taaattgatc aataaaaaaa      1140
aaaaaaaaa a                                     ...      1151

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&lt;210&gt; 324

&lt;211&gt; 868

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3)..(3)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 324

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ggncacgagg ttaactgtka caccatgatt actgaggtaa gacatgtccc tccagtcccc      60
tggcagcaac tgattttgcc tatgcaaagc cgtgctattc ttctgctggg ggttagcctt      120
tgcttttagag gacttccctc ctattccatg tgcttgggaag tgatgagcag agggaagact      180
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gagctggaat tgtgtcactg cactccag                                     868

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&lt;210&gt; 325

&lt;211&gt; 1410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 325

cagatcaggg	tcttaagaag	attatctttc	atagtgccta	tttgatggta	atgatcataa	60
atacagtata	atagaaggaa	aaatatctgg	tggcttatat	gcattggtag	tttctcatgg	120
taataagcat	ttttttttct	cttcctttta	gcacaagtgc	atacaccttg	atagcaccaa	180
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agtggaaagg	gcagaacaga	gctaaaccgg	ttcacctggg	gccagacgg	ctaggtggaa	300
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&lt;210&gt; 326

&lt;211&gt; 1303

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 326

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&lt;211&gt; 1251

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

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&lt;210&gt; 328

&lt;211&gt; 4412

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

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&lt;210&gt; 329

&lt;211&gt; 1907

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

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&lt;210&gt; 330

&lt;211&gt; 969

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 330

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&lt;210&gt; 331

&lt;211&gt; 2126

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 331

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&lt;210&gt; 332

&lt;211&gt; 861

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 332

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&lt;210&gt; 333

&lt;211&gt; 587

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (587)..(587)

<223> n equals a,t,g, or c

<400> 333

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<210> 334

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (12)..(12)

<223> n equals a,t,g, or c

<400> 334

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<210> 335

<211> 931

<212> DNA

<213> Homo sapiens

<400> 335

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<210> 336

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 336

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&lt;210&gt; 337

&lt;211&gt; 1930

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 337

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&lt;210&gt; 338

&lt;211&gt; 2425

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 338

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&lt;210&gt; 339

&lt;211&gt; 1021

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (248)..(248)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1004)..(1004)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1014)..(1014)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 339

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&lt;210&gt; 340

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 340

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&lt;210&gt; 341

&lt;211&gt; 727

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

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&lt;210&gt; 342

&lt;211&gt; 1112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 342

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&lt;210&gt; 343

&lt;211&gt; 1238

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 343

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 <212> DNA  
 <213> Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 346

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&lt;210&gt; 347

&lt;211&gt; 839

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 347

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&lt;210&gt; 348

&lt;211&gt; 754

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;210&gt; 351

&lt;211&gt; 978

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 351

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&lt;210&gt; 352

&lt;211&gt; 1113

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 352

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aactggggcc	acccccgttt	cacgtgcttg	tatcgagtcc	gtgcccacgg	tgtgcgaacc	1020
tcagaggggg	cagagggcag	tgacacaggg	ccccattaaa	catgctgatt	tttggagtaa	1080
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa			1113

&lt;210&gt; 353

&lt;211&gt; 738

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 353

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ggtacaggac tgagaagcag ataacaagag tgacgctcac agggctgggc tgacgctaac    60
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cctgcccaca gctccagccc tgagacgacg agggaggagag tcgactttgc ctcttgccca    180
agggaccatg cccagggtgc ggtggctctc cctgatcctc ctcaccattc ccctggccct    240
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caatgcctca aatgccaacg tgaagcagtg tctgtggttt gccatgcaag aatacaacaa    360
agagagcgag gacaagtatg tcttcctggt ggtcaagaca ctgcaagccc agcttcaggt    420
cacaaatctt ctggaatacc ttattgatgt agaaattgcc cgcagcgatt gcagaaagcc    480
tttaagcact aatgaaatct gcgccattca agaaaactcc aagctgaaaa ggaaattaag    540
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gtgtgaagat gcttaatggt gttttgaggc atccctccaa cctctgtgac tactttatcc    660
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aaaaaaaaaa aaaaaaaa

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&lt;210&gt; 354

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 354

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gaagaagaag aagaacaccc ttttgaagaa cagagagcag tctctgtcat accaggrgta    180
cctgtcacat actttagtaa caaaaataag taacatttta attattgaaa caatgtaaca    240
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ttaaatttgc cctcaagaag ttccactagt gtaagagtag gcaagtaacc aattattaca    600
atagtgggac aagcgctgtg atagaaataa atacagagta ctgtggcagt ccttaccag    660
aaaaagatat ctagggtaga tggtatctga actgagaatt aaagaataaa tagaagatag    720
catggcaaaa aaaaaaaaaa aaaaactcgt ag

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&lt;210&gt; 355

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 355

```

tgcaggaatt cggcacgaga ttacaacaca tcagaacaaa atgttatgga ctaccatgga    60
gcagaaatcg tgagccttcg tttgctgtca ctagtaaaag aagaatttct ttttctcagc    120
cccaacctag attcacatgg actgaaatgt gcatcttctc ctcattgggt gggtatgggt    180
ggagtgtgctg ggactgtcca tcgaggaaac acttggttgg gcatttttga acaaattttt    240
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tcagcctgaa aaaaatcttc tatacagaaa ctcttccaaa tactatatca gtaatgtctg    600
aatgatattca gatgtgaaaa ttgacatatt ttagttgaaa tacctttctg gactacagac    660
ttacatatca tgtgaatact tacctatttc taccgagtt gcagcaagta ttctgaaagc    720
ttaatgcaaa taaatcccac tttagatctt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    780
aaaaaaaaaa aaaaaaaaaa aaaaaaac

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&lt;210&gt; 356

&lt;211&gt; 1898

&lt;212&gt; DNA



<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1398)..(1398)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1428)..(1428)

<223> n equals a,t,g, or c

<400> 356

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tcccagttgc agaaagcaga aatctgtata tatttgcgga tgaattacat ctgggaatgg      180
gctgccctgc aaatcggata catacatatg tatatgagtt tatatatctt gttcgtgatt      240
gtggcatcag gacaagggtg gtttctgagg aaactctcct ttttcaaacc gagctgtact      300
ttaccccaag gaatatagat catgaccctc aggaaatcca tttggagtgt tccacctcta      360
ggaaatcagt gtggcttaca ccagtttcta ctgagaatga aataaaattg gatcctagtc      420
cttttattgc tgactttcag acaacagcag aagagttagg attattatct tctagtccaa      480
acttgctctg agctaaagga gaaatggaaa cttgaagctg gtgttatgta ttttgcagga      540
aaacagtttc attttttcat agcaaaaata tagttgggtg atatctctcc ttaagtctct      600
ggtttctaaa aacctactt cagtaaaagg cctgattagt tgattagtga atgtgtattt      660
ctaaatattt gtattcagta ggggtatggc tgattaattt aacattaact attaggtaat      720
tcatattata catttaagtt ctttctgttc tgtgtagaag attcagaaat atgtcttcaa      780
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gaagaataaa gaatagagag agacatataa atgtgcaaga ggcaaaactt tgagcatagt      900
gtaaaattta acatattaac tctcacgaaa ggcaaaatcc ttttatgtgc agatacttta      960
attcatgtag attttcctat taatcagtaa agttgaatcc taacaataat gccatgtgac     1020
aacctattta gattattcca gaattaaatt caatttattt tctagagctc aagtaaccac     1080
tactttaact gaaatttgat gttaggtttc ccttgttcct ccgaatgggt cttccacact     1140
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gacctgtca tagtgaacat ctgtctttac cagttaacat gcagctaaga ggtaataact     1560
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ttggaatcat cttaagttgc tgaactttag ttctctagaa aacaattgct attcaagcag     1860
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<210> 357

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

<400> 357

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gaccaccaaa gactcagcct ttcacatcat gtcccacgag agcccaggca tcgagtggct     180
ctgtctggag aatgccccat gctatgacaa tgttccccaa ggcattcttg cccctgaatt     240

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cttcttcaag	gtgttggtga	gcaatagagg	agtggacacg	agcacctact	gcaactacca	300
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catcatgggtg	tcagctagcg	tgtttgtggg	cctggtgatc	ttctacatcg	ccttctgcct	420
cctgtggccc	ctcgtgggtga	agggctgcac	gatgatccgg	tggaagataa	acaacctcat	480
tgcctcagaa	tcctactaca	cctacgcctc	catttccgga	atctcgagca	tgccatctct	540
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caaggaagcc	gtggagagac	agttgatgac	ctgagtgtcc	cacctgcccc	agcccccagt	660
tactgtcacg	cctctcttat	gaggcccatc	ttgaagatgc	aacctgtcac	ccagcccagg	720
cctctctttc	tgttttgctt	gatgtttact	tctcgttcag	actcaaataa	agcctttttt	780
caggaccaa	aaaaaaaaa	aaaaaaaaactc	gag			813

&lt;210&gt; 358

&lt;211&gt; 1818

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 358

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cctgtgctgg	tgtactctga	ggcgcgattg	tgtgaaaggt	gggctaaggt	gcctgttcga	180
ccacatcctc	actggtagac	tgggtcacca	cagtttttga	aagggtagaa	atggtatcta	240
aacatagttt	gaatttgcatt	ttcttttact	ggaagggagg	ctgcgcgtgt	ttcacatcag	300
agccacgtgt	gtttgtgggt	gttgaacttt	ctctcttggg	ttgctaggag	tgttttatgt	360
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aaaaaaaaa	aaaaaaaaa					1818

&lt;210&gt; 359

&lt;211&gt; 1650

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 359

ggaacctcat	caacgctgac	ttctgcgtgg	cctctgtctg	cgtggccttt	ggggcagttc	60
tgggtaaagt	cagccccatt	cagctgtctc	tcatgacttt	cttccaagtg	accctcttcg	120
ctgtgaatga	gttcattctc	cttaacctgc	taaaggtgaa	ggatgcagga	ggctccatga	180
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acctagagca	gagcaaggag	agacagaatt	ctgtgtacca	gtcggacctc	tttgccatga	300
ttggcaccct	cttctgtggg	atgtactggc	ccagcttcaa	ctcagccata	tcctaccatg	360

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<210> 360

<211> 2762

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2711)..(2711)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2730)..(2730)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2752)..(2752)

<223> n equals a,t,g, or c

<400> 360

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at						2762

&lt;210&gt; 361

&lt;211&gt; 956

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 361

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&lt;210&gt; 362

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 362

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&lt;210&gt; 363

&lt;211&gt; 2248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 363

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&lt;210&gt; 364

&lt;211&gt; 978

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 364

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aaaaaaaaaa	aaactcga					978

&lt;210&gt; 365

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 365

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&lt;210&gt; 366

&lt;211&gt; 1019

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (126)..(126)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (202)..(202)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (380)..(380)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (476)..(476)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (511)..(511)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 366

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&lt;210&gt; 367

&lt;211&gt; 946

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 367

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&lt;210&gt; 368

&lt;211&gt; 1949

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 368

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ggactttaat gaaaaaaaaa aaaaaaaaaa 1949

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&lt;210&gt; 369

&lt;211&gt; 1374

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 369

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&lt;210&gt; 370

&lt;211&gt; 3435

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature



&lt;222&gt; (760)..(760)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 370

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aaaaaaaaa aaaaa

3435

&lt;210&gt; 371

&lt;211&gt; 1481

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 371

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&lt;210&gt; 372

&lt;211&gt; 652

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

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&lt;210&gt; 373

&lt;211&gt; 1711

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 373

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&lt;210&gt; 374

&lt;211&gt; 2058

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 374

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&lt;210&gt; 375

&lt;211&gt; 1963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (5)..(5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1116)..(1116)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1253)..(1253)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 375

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<211> 1583

<212> DNA

<213> Homo sapiens

<400> 376

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<212> DNA

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<223> n equals a,t,g, or c

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&lt;213&gt; Homo sapiens

&lt;400&gt; 378

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&lt;211&gt; 868

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 381

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&lt;211&gt; 853

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (75)..(75)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 382

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&lt;210&gt; 383

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

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&lt;210&gt; 384

&lt;211&gt; 2561

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 384

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 392

&lt;211&gt; 1138

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 392

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&lt;210&gt; 393

&lt;211&gt; 1841

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 393

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<210> 394

<211> 1677

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (537)..(537)

<223> n equals a,t,g, or c

<400> 394

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&lt;210&gt; 395

&lt;211&gt; 1529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1505)..(1505)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 395

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&lt;210&gt; 396

&lt;211&gt; 3282

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 396

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<210> 397

<211> 831

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (10)..(11)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (15)..(15)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (27)..(27)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

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&lt;223&gt; n equals a,t,g, or c

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&lt;213&gt; Homo sapiens

&lt;400&gt; 403

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&lt;211&gt; 718

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (21)..(21)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 404

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&lt;210&gt; 405

&lt;211&gt; 1380

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 405

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<211> 813

<212> DNA

<213> Homo sapiens

<400> 406

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<212> DNA

<213> Homo sapiens

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 <212> DNA  
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&lt;211&gt; 2288

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 409

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&lt;211&gt; 824

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 412

&lt;211&gt; 3758

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 412

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tctaagttga	tatctaaaat	tttatctaag	ttggtatcta	aaatttttca	tgggaagtta	3660
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actgttacat	cactaaaaaa	aaaaaaaaaa	aaaaaaaaa			3758

&lt;210&gt; 413

&lt;211&gt; 1534

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1212)..(1212)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 413

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gactggctga	aggtccgtat	gtactcgcgc	acagtggcca	tcatcggcgg	ctttcttctg	360
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&lt;210&gt; 414

&lt;211&gt; 2454

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (2317)..(2317)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 414

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acacaaaaaa	aaaaaaaaaa	agggcgggcg	ctctagagga	tccaagctta	cgtagcggtg	2160
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&lt;210&gt; 415

&lt;211&gt; 1775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (820)..(820)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 415

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tgggtaaaga	tggccccatg	gccccgaag	ggcctagtcc	cagctgtgct	ctggggcctc	120
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&lt;210&gt; 416

&lt;211&gt; 1379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

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&lt;210&gt; 417

&lt;211&gt; 2664

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

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&lt;210&gt; 418

&lt;211&gt; 1508

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

```

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aactcgag
1508

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&lt;210&gt; 419

&lt;211&gt; 1306

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1300)..(1300)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 419

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tacaggcggg actgagtcgc accggtcgat ctcgagaggt gctggagctg gggcaggtgc 300
tggatacagg caagaggaag agacacgtgc cttacagcgt ttcagagaca aggctggaaag 360
aggccttaga gaatttatgt gagcggatcc tggactatag tggtcacgct gagcgcaagg 420
gctcactgag atatgccaag ggtcagagtc agaccatggc aacactgaaa ggcctagtgc 480

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<210> 420

<211> 1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1029)..(1029)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1037)..(1037)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1040)..(1040)

<223> n equals a,t,g, or c

<400> 420

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<210> 421

<211> 729

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (702)..(702)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (710)..(710)  
 <223> n equals a,t,g, or c

<400> 421  
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 cagcatcatc atgaccatct cctccacgct tctggccctc gtcttgatgc ccctgtgcct 180  
 gtggatctac agctgggctt ggatcaacac ccctatcgtg cagttactac ccctagggac 240  
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 taggaagcat gkacatgktt cctttgctgk atgcactttt ycagtctgca raascgggga 660  
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 tagattaaa 729

<210> 422  
 <211> 1180  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<400> 422  
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 tctggttgag ctcagggaat atggttctta gccagtttct tggtgatc cagtggcact 180  
 tgtaatggcg tcttcattca gttcatgcag ggcaaaggct tactgataaa cttgagtctg 240  
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa			1180

&lt;210&gt; 423

&lt;211&gt; 943

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 423

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&lt;210&gt; 424

&lt;211&gt; 526

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (283)..(283)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 424

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atgcatccct	gctgagcaag	aggagcttcc	actacctgcy	canaagsacg	cctcttcggg	300
agaggaggag	gagggcaaa	agaaaaagac	tttccccatc	tctggggcca	ggggtggarc	360
cagaggcacc	cgttacagat	acgtgtccca	agcacagccc	aggggaaaag	cacgccagga	420
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catgaacctc	ctcttcaaca	tcgccaaggc	caagaactgc	gtgccc		526

&lt;210&gt; 425

&lt;211&gt; 1566

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 425

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<210> 426

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 426

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<210> 427

<211> 571

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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<210> 429  
 <211> 1086  
 <212> DNA  
 <213> Homo sapiens

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<210> 430

<211> 2078

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1177)..(1177)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1187)..(1187)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2057)..(2057)

<223> n equals a,t,g, or c

<400> 430

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&lt;210&gt; 431

&lt;211&gt; 2494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (920)..(920)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 431

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<211> 730  
<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<400> 433  
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<213> Homo sapiens

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<220>

<221> misc\_feature  
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<220>  
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 <223> n equals a,t,g, or c

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<210> 435  
 <211> 738  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (3)..(3)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 gactgggaaa accctggcgt taccacactt aatcgccctg cagcacatcc ccctttcgcc 660  
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 ctgaaatggg ngaatggg 738

<210> 436  
 <211> 1145  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (410)..(410)  
 <223> n equals a,t,g, or c

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aagaagctgg	actctactgc	cattaaagct	gagagaatcc	taaggttatt	tgtggcttcg	1080
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aatca						1145

&lt;210&gt; 437

&lt;211&gt; 869

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (765)..(765)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (800)..(800)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (847)..(847)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 437

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ccactttctc	ctaccagtac	cctgccccac	accctacag	cccgcagcct	ccaccctacc	180
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&lt;210&gt; 438

&lt;211&gt; 692

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

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692

<210> 439  
 <211> 980  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (937)..(937)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (956)..(956)  
 <223> n equals a,t,g, or c

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<210> 440  
 <211> 888  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (845)..(845)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (864)..(864)  
 <223> n equals a,t,g, or c

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 aaggctacct gttcgacgcc cgggatatcg gttgatgcgc gcgcccttca acacgctggt 180  
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&lt;210&gt; 441

&lt;211&gt; 2190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 441

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&lt;210&gt; 442

&lt;211&gt; 4909

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2523)..(2523)  
 <223> n equals a,t,g, or c

<400> 442  
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&lt;210&gt; 443

&lt;211&gt; 2921

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 443

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&lt;210&gt; 444

&lt;211&gt; 1259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (4)..(4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (18)..(18)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 444

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&lt;210&gt; 445

&lt;211&gt; 1931

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1212)..(1212)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 445

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&lt;210&gt; 446

&lt;211&gt; 1517

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 446

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&lt;210&gt; 447

&lt;211&gt; 2751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 447

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tgactgtctc	cagaagggct	ggaaaggatg	ctgccagggtg	acccgagggtg	cactcgcccc	2340
agggagatgg	agtagacagc	ctggcctggc	cctcgggaca	cattgtctgc	cccgggrcta	2400
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gacctgttac	agccctggtc	acttggaact	gacagctgtg	tgaggcctgc	acttctcaga	2520
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gttacaagaa	attggtttct	tgcaaaaaaa	gtccctacct	grxcctttag	gtgaatgtgg	2640
gatccactcc	cgcttttaac	atgaaagcat	tagaagatgt	gtggtgttta	taaaaaaaa	2700
aaaaaaaaaa	ctcgaggggg	ggcccgtacg	ggaattcgcc	ctatagttag	t	2751

&lt;210&gt; 448

&lt;211&gt; 1314

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 448

atgcccgcagc	tcttctatga	ccctgacgag	tgcgggctga	tgaagaaggg	gggcttgtac	60
ttcagtgact	tctggaataa	gctggacgtc	ggcgcaatct	tgctcttcgt	ggcagggctg	120
acctgcaggc	tcatcccggc	gacgctgtac	cccgggcgcg	tcactctctc	tctggacttc	180
atcctgttct	gcctccggct	catgcacatt	tttaccatca	gtaagacgct	ggggcccaag	240
atcatcattg	tgaagcggat	gatgaaggac	gtcttcttct	tcctcttctc	gctggctgtg	300
tgggtggtgt	ccttcggggg	ggccaagcag	gccatcctca	tccacaacga	gcgccgggtg	360
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gctacatcga	cgggtgtgaa	ttcaacccgg	agcactgcag	ccccaatggc	accgaccctc	480
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gacggtcctc	ctactctgcc	tctacctgct	cttaccacac	atcctgctgc	tcaacctcct	600
catcgccatg	ttcaactaca	ccttccagca	ggtgcaggag	cacacggacc	agatttgga	660
gttcacgcgc	catgacctga	tgcaggagta	ccacggccgc	cccgccgtgc	cgcccccggt	720
gacctctctc	agccacctgc	agctcttcat	caagaggggtg	gtcctgaaga	ctccggccaa	780
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cgagcagaag	atcgaggaca	tcagcaataa	gggtgacgcc	atggtggacc	tgctggacct	960
ggacccactg	aagaggtcgg	gctccatgga	gcagaggttg	gcctccctgg	aggagcaggt	1020
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gcccggaggc	aggaagaaga	cggaggagcc	gggcgacagc	taccacgtga	atgcccggca	1200
cctcctctac	cccaactgcc	ctgtcacgcg	cttccccgtg	cccaacgaga	aggtgccttg	1260
ggagacggag	ttcctgatct	atgaccacc	cttttacacg	gcagagagga	agga	1314

&lt;210&gt; 449

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

gtgagaagat	aatcctgaga	ggctgcatcc	tgagaaatac	cagctggtgt	tttgaatgg	60
ttatTTTTgc	aggtcctgac	actaaactaa	tgcagaatag	tggttaagaca	aagtTTTaaa	120

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ggacaagcat tgatagattg atgaatactc tagtactatg gattttttggg tttctgatat 180
gcttgggaat tattcttgca ataggaaatt caatctggga gagtcaaact ggggaccaat 240
tcagaacttt cctcttttgg aatgaaggag agaagagctc tgtgttctcc ggattcttaa 300
cattctgggc atatattatt attctcaata cagttgtacc catttcctta tatgtgagtg 360
tggaagtaat tcgtctagga cacagttatt ttataaactg ggaccggaag atgtattaty 420
ctcgaaaagc aatacctgca gtggctcgaa cgaccacgct caatgagg 468

```

```

<210> 450
<211> 181
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (178)..(178)
<223> n equals a,t,g, or c

```

```

<400> 450
ggtcagtgtg cagatagcct tggataccag ktactggact ttcattaatc acgtcttcat 60
ctgggggagc attgccatct atttctccat tttatttaca atgcacagta atggcatctt 120
tggcatcttc ccaaaccagt ttccatttgt tggtaatgca cgacattccc tgaccanana 180
g 181

```

```

<210> 451
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (47)..(47)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (534)..(534)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (537)..(537)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (563)..(563)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (565)..(565)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (591)..(591)
<223> n equals a,t,g, or c

```

```

<400> 451
cagtctgggc ttaagaaacc accagaagaa ccaaaccag aaatgcncaa gtgtaaatgc 60
aaaaattctt atagaagaaa tagcataaga atttgcacat tcggaaataa gaccaccttc 120

```

catgaacaag	gagaagcctt	tggagatata	taaactgtgc	aatgaatag	tcgctggcta	180
agactgcttg	caatccttcc	tggccgctga	tgccaacacc	aatgtgagca	cttttaataca	240
tgctgacata	attggctcca	tcwccaatgg	ccaaagtaac	agcattttctg	tactttcttca	300
ccagctctac	cacttgggct	ttcttggagt	gagtgaccct	gcagcaaatt	acagtcttac	360
acatgcaagc	aagttctagg	agatcattct	tgacatcact	ttctagggca	tgagccaaac	420
tgtggccatt	tatgattaag	gcataatctc	ctgttatggg	ttcttctaca	atagaatcca	480
actccagctg	ctgctttttt	tcacaaacta	catggccatt	ggaaaaattt	ctgnttngtc	540
caaacaaatt	ttgttttgaa	atnangagtt	cttctctcac	ttccacagca	nttatttcct	600
gctataggga	gg					612

&lt;210&gt; 452

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (29)..(29)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (986)..(986)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 452

tgctttctctg	agttcttctc	tcacttccnc	agcattatcc	cctgctatcc	caaacmcatc	60
attcatgtcg	tcagtcagca	tgttgcaggc	ataaccgatg	ttgatgscag	tttcttggtt	120
gtctctctgt	aggaccagca	tcttaatat	ggctagtgat	aaacttgtaa	ctgtttcaat	180
aacaccctcc	tgtaacttat	cttctacagc	agtggcacct	agtagcatca	aatctctttc	240
aatttcttca	tatagcccag	ctattcggtc	atccctctct	tctgtggcaa	cattcgcatc	300
ttcaagcatc	ttatgccact	ctttaagta	cttgtcatcc	aggtctctgt	atgcgatggc	360
caagggtccga	aggccttccc	ctgcaaattc	actgagggtg	tctgacgtca	aagacaaaag	420
gacttcattg	gaaggatsaa	gtttctcaaa	cagaatagta	tctgctcctt	tggaataaag	480
ctttatctgt	ccttctgggt	ttcgarctat	gacagacatc	ctttttctgg	tgttgttgaa	540
atccaaaaag	gcaagtaatt	gataagtaac	tagtggtccc	aattcttcta	ttgttatggg	600
ctctgggggc	cgggatttaa	aratgaaccc	aaaatttcta	gcggcagtc	ctagagcccc	660
ttcatcaggt	gactgaactt	ggtaaatcag	ctctcctgcg	ctattctctt	ctgacattac	720
agtgtggcag	agagcaagta	acctaaggaa	ttcatgaact	ttgggatcac	ccattttaat	780
ggattccatc	agattgtggg	caaagaactg	aaattctcta	tccgcttgag	atttgactga	840
gaaatccaca	ggctcttttt	cctgagttat	ttctgtcttc	tgatccaggt	catcatgtac	900
ttcaccatag	attctcccat	taatggaaca	tcttttaaag	gtcatgatgt	tttgagtggg	960
ggtacccggt	ttgtcggaga	aaatgnactc	aatctgcccc	agttcttcat	tgagcgtggg	1020
cgtt						1024

&lt;210&gt; 453

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 453

gacgcgtggg	agctcattat	ccatcaaact	cactcargtg	wacyytgagt	gagtttgatg	60
gataatgagc	taatgtgata	tctataggtc	acaatttttt	aaaacaaaa	ttttcaagtc	120
tgggataatc	tttctctaat	gggatcaaat	gaaataatat	gtgtaaaaga	gtcaaatgca	180
gtcctttacc	atagtaactg	cctatggacg	ttgtctttcc	cttacatgcc	tgccctacact	240
taaccagatg	ttggttttca	agtctaattk	gtcattagtt	tcaccacatt	kgctcacttt	300
tkgtaacatt	tttgcaagat	ttgaaaactt	tcagtaaatg	ttttggcact	attggtaaaa	360
aaaaaa						366

&lt;210&gt; 454

&lt;211&gt; 519

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (371)..(371)  
 <223> n equals a,t,g, or c

<400> 454  
 cctggttagg gtcctacagg gaaataaaaat tataaccgtg gaggtacatt tctctaccag 60  
 aaagcaaaaa taaagcatca tgtcttaatg gttttctaca aatcaacttc taattctaca 120  
 gagtccttaa tctggtccct attaaattct tggtcagaca aagttacatt tccaagaga 180  
 gtcagggtgac acttgagtga gtttgatgga taatgagcta atgtgatatc tatagggtcac 240  
 aatTTTTTaa aacaaaaatt ttcaagtctg ggataatctt tcctaaatgg gatcaaatga 300  
 aataaatatgt gtaaaagagt caaatgcagt cctttaccat agtaactgcc tatggacgtt 360  
 gtctttccct nacatgcctg cctacactta accagatgtt ggTTTTcaat gtctaatttg 420  
 tcattagttt caccacattt gctcactttt tgtaacattt ttgcaagatt tgaaaacttt 480  
 cagtaaatgt tttggcacta ttggtaaaaa aaaaaaaaaa 519

<210> 455  
 <211> 2042  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2001)..(2001)  
 <223> n equals a,t,g, or c

<400> 455  
 ggtcagcttt catctcgtcc tatctttgtt caggcaaaact tctctagttc tgttttaata 60  
 ggcatatttg ttaggtctgt tttttgaaat cctctttttt acattgttta aagataatgc 120  
 cttggctaaa aagcctgctt cacttttccc tgtttttagt tgttttctcc acattggcag 180  
 taaagagcct tggcgtccca gtagcagcag gttctccttt ttgtattgtg gatgttttgc 240  
 atttcatact gttgtgaaga gtggccttga tcatacatgt tgttggtata ttgcccyytt 300  
 tgctgggggt gtgagaagaa ccagagatga gcagagggtac acccagtaga cttcccagcc 360  
 tgcaagacct cccgggaaga gcttccgtgt tcagggtgct ggggccccwc cctaggagcc 420  
 tgwctwcag tcagagcwgg gtcccggctt gygttcagga ttttgaaaca tttgtawggt 480  
 gattttggtg tttctacacc tttctcctca tctttttttt tttgtagtta atcgttacta 540  
 ataacagaaa agacattttt ggcatggtaa ttggcacaaa gtgaataatt gttgaataga 600  
 tgacttttga ggctttcaaa attcgagtgt ccataaaatc catccagagc cacctgggtc 660  
 ctttttttga accacttaac gtaattctgg aaaaccttga ctgtgggtct taagtttggt 720  
 ggattgctgc ttctcactgg ctgacctttg gaggtcgcat atttcaggat gtgattccac 780  
 ttaggtcca tttcacctga cactgcaatt ctgtgccttc agagggattt gttattgcga 840  
 atgatgtgga caacaagcgc tgctacctgc tgcctcatca agccaagagg ctgagcagcc 900  
 cctgcatcat ggtggtcaac catgatgcct ccagcatacc caggctccag atagatgtgg 960  
 acggcaggaa agagatcctc ttctatgac gaattttatg tgatgtccct tgcagtggag 1020  
 acggcactat gagaaaaaac attgatgttt ggaaaaagt gaccacctta aatagcttgc 1080  
 agctacatgg cttacagctg cggattgcaa cacgcggggc tgaacagctg gctgaagggtg 1140  
 gaaggatggt gtattccacg tgttctactaa accctattga ggatgaagca gtcatagcat 1200  
 ctttactgga aaaaagtga ggtgctttgg agcttgctga tgtgtctaata gaactgccag 1260  
 ggctgaagtg gatgcctgga atcacacagt ggaaggtaat gacgaaagat gggcagtggt 1320  
 ttacagactg ggacgtgtt cctcacagca gacacacca gatccgacct accatgttcc 1380  
 ctccgaagga cccagaaaag ctgcaggcca tgcacctgga gcgatgcctt aggatattac 1440  
 cccatcatca gaatactgga ggggtttttt tggcagtatt ggtgaaaaaa tcttcaatgc 1500  
 cgtggaataa acgtcagcca aagcttcagg gtaaatctgc agagaccaga gaaagcacac 1560  
 agctgagccc tgcagatctc acagaaggga aaccacaga tcctctctaag ctggaaagtc 1620  
 cgtcattcac aggaactggt gacacagaaa taagtcatgc aactgaggat ttagagaata 1680  
 atggcagtaa gaaagatggc gtgtgtggtc ttcctccatc aaagaaaaatg aagttatttg 1740  
 gatttaaaga agatccattt gtattttatc ctgaagatga cccattattt ccacctattg 1800  
 agtaaggatt cagccttttt aattattcat ttaaagaaat ttactataga gtatcaaatg 1860

tacaactgat	cacatgtaac	cattgttttg	tatgtagttc	tgtctagctt	tttttttttt	1920
ttaacctttt	taactgcata	ttagagcagg	atgaaacttt	agaggttact	caatctttta	1980
atttaaggag	aaagtaaaca	nttactttgt	gaacatgata	gataaaaaaa	aactggaccg	2040
gg						2042

&lt;210&gt; 456

&lt;211&gt; 308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 456

ggaggcagga	ccttgccta	ttcattaatc	ttgccccca	acagttattt	tcagaggggc	60
aagaagtgtt	tcagggttct	tggcccttgt	ttgaccagtc	gtcctaacc	tcrtgtcttg	120
ggtcattgtt	gttrtaatct	ggggttacct	tttggaaggt	catgggggtac	ccttttgcaa	180
aagttatggg	ccctmtcctt	ggaaactgca	cacacaccat	gcagcttaca	attcagggag	240
ttcacaggtc	tacagaatcc	tgggaaactc	tccatgtccg	gttctaattc	attgtagctt	300
cagtggga						308

&lt;210&gt; 457

&lt;211&gt; 1568

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1550)..(1550)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1564)..(1564)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 457

ctcatcagcc	ctatgaggta	gggaggtagg	tattattatc	acccttggtta	gtttttttgt	60
tttgttttgt	tttcagatg	agagaatcat	tgctcacaga	agtgaagtaa	cttttccaag	120
gtcatacaat	cagtaagtgg	caggcaagga	ctgaaatcca	agttgttacc	ctccaaagtc	180
cctgctctga	gaactggagg	aattctttat	caaactctaaa	atcctctttt	agscctgtct	240
gctttaatat	tccggtcttt	attgatcctt	ctcttctcta	aamcttcagc	tgctcagtata	300
aaaatcaagg	aatttagcmc	ttgttattgt	gtgamcagct	tcttgtctct	cctgtactgt	360
aagtgggtct	agggattttt	attcttttaa	tatccccctg	tactcagtag	atctttggga	420
gamcaagctc	ataggcttct	aataattctt	tctttgactg	ccagctgaat	tagacagaag	480
gtaagtccctg	ctgccgtgtc	gtgcctaacc	ccatctttat	ttcctgtgct	gttagagaac	540
agtcttttct	tggctggaac	aaatactaca	gctgtctcaa	ctagctaata	tgtattgagt	600
tcttartatg	ttccaaggac	tgctctaagt	atttatata	tattaactca	ctgaatctta	660
aataccctat	gagctaagtc	ctatttttat	ccccatttta	caaaagagga	aactgaatgt	720
accagtgcac	cagtatttga	ctgagtaaat	gaatgactgc	tttgctgatg	gatagtatta	780
ttagcaacaa	ccctacaaat	atgatgttat	gtttgcatca	tgcagtacag	ctttatgtac	840
cttatgtcat	tgtcactcat	gattagcaaa	taggcacgaa	catccctatt	ttatagaaga	900
ggaamccatg	gctctaagag	ggtgagtgat	tctcaacagt	cacatgccat	ctgtatcctt	960
cagtaaacia	ggtatttggt	ccattccagg	atcgggggca	agagagatgg	gagggcctcg	1020
gtgagaaaca	ctcatattca	caaaagggtac	tagatagata	gacagataaa	taaataaata	1080
gagataaaaag	ctagtaatag	cagagatttg	atgggaattc	agatctttga	ttcctagtcc	1140
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gctttgatth	aggatcttaa	gccagaagca	gcagcgccct	aaacaaaaag	catcatttta	1260
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aaacaaataa	acagaggggg	caaaatgcac	ccttctgagt	gggctggggc	ttgtagaggg	1380
attcttgggt	ttgctctggg	atgtcttttg	gcccttgcac	ttgtgggcac	tctgatttat	1440
ccccacaggc	cacctggccc	accttatggg	ctgaggaggg	cttgatgggc	ggaggsaagc	1500
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atgnntag						1568



<210> 458  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<400> 458  
 accgcagcct gcngggctcn agcattccty tsgcytcagc ctcttgakta gctgggaccm 60  
 cagytccact aattttgaag ttttttkggt agacatgaag tctccctgtg ttgcccgggc 120  
 tggctcctaaa ctcttgacct caagcagtc tctgtcttg gcctctggaa atgctgggat 180  
 tacaggcgtg agccactgtg ctggcctctt tttctttttt cttttttttt aagggtttta 240  
 tttgttaaat gggaagtctg tgccatcaac tgagcattgt attttctcct tagtaagagc 300  
 ctgggtgggc cactgggaga gaactataca ttaaatgtaa gtagcctctg ggtagagagc 360  
 ccctggctgg tttcctttcc tttctctcct tttctctact ttggtgtctg gaggcatttc 420  
 ccagactcca gtttcttacc accctcacgg attttgctat tgtattatca cctcctttat 480  
 cattcccaaa attgacttta tggagactca ttaaaagaaa gaatcatcgg ccgggagcgt 540  
 kgctcacgcc acgaaggcgg gcgaatcacc tgaggtgcgg agttcgtgac cagcctgacc 600  
 aaaacagaga aaccccatct ctactaaaca atacaaaatt agctgggcgt ggtggtgcac 660  
 gcctgtaatc ccagctactg gggaggctgg gacgggagaa tcacttgaac ccgggaggca 720  
 gaggttcag tgaccaaaga tcgcactatt gcactccagc ctgggcaaca agagcaaaac 780  
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 aggggcccaa gcttaggcgt gcatg 865

<210> 459  
 <211> 1687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1568)..(1568)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1652)..(1652)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1654)..(1654)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1660)..(1661)  
 <223> n equals a,t,g, or c

<400> 459  
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 gggctgcagg gccggggtgg gtcctggggc ttggccatcag gcagcctagc aggttgttct 120

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gggcatggag ggggcctggt gtggctgagg gcatgcccag ggctccctgg aggatcccgc 180
tctgtgccct gccaccctg tgccctggga gccctctgcc ctcacagccc acccacccca 240
ttttctatga ccacagagct ccgacctgga agatggctca cccaggaggt cccaggagct 300
ctcactcccc caggggacct ggaggacacc cagctctcag acaaaggctg ccttgccggc 360
ggggggagcc cgaacacagcc ctttgcagct ctgcaccagg agcagggtttt gcggaacccc 420
catgtaaggc ttccccgggg tggggtcctc ccagccgtgg gcctcagggt gaccgatcac 480
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<210> 460

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

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<222> (16)..(16)

<223> n equals a,t,g, or c

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<222> (496)..(496)

<223> n equals a,t,g, or c

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<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<400> 460

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&lt;210&gt; 461

&lt;211&gt; 1752

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1099)..(1099)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 461

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gggcagcaca	gggcctcagg	cctgggtgcc	acctggcacc	tagaagatgc	ctgtgccctg	240
gttcttgctg	tccttggcac	tgggcccgaag	cccagtggtc	ctttctcttg	agaggcttgt	300
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&lt;210&gt; 462

&lt;211&gt; 536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (508)..(508)

&lt;223&gt; n equals a,t,g, or c

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<400> 462
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tattgataca atttcacctc taaaatggat ttgaagaaat gcaactttat atcaaaaaat      180
gtcatctgat ttcctttgtt tcttttttaa attatgtaat cagatgattt tatgtttttt      240
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atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaaggat tttaaaatac      360
caaaactgtaa ctgagtacag tggatcgttt tctgttagga tgtaaatatt atacaatgaa      420
atctataaag tgttgtaaat ttgattattg acacataata catgtttaca aataaactgt      480
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<210> 463

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (322)..(322)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (394)..(394)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (397)..(397)

<223> n equals a,t,g, or c

<400> 463

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<210> 464

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (630)..(630)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (710)..(710)

<223> n equals a,t,g, or c

<400> 464

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agtctggccc aggacctggc cccacaggag tcccagcagg ggtagctcct cccgggacaa      180
ggaccgaagt gcgacggtca gtagttcagt gcccatgcct gctggaggga aaggaagcca      240

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tccttcatct	acaccccaga	gggtcccca	ccgcctgac	cacgagaagt	caccatacct	300
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&lt;210&gt; 465

&lt;211&gt; 2716

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<211> 737

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<220>

<221> misc\_feature

<222> (21)..(21)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (369)..(369)

<223> n equals a,t,g, or c

<400> 467

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gctgtgagat gaccaggggc cgggatgggg gaggtgagac gtgccagact tcttgcaggg 660
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<210> 468

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (798)..(798)

<223> n equals a,t,g, or c

<400> 468

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atttacagtc ttcatatata ttatatatat gtatatgtat acatatatat acactatata      180
acgaggccag atataataca cacgtttacc attttacagt catatgtaca ggaagttgct      240
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acggacggac aggcggacgg actggcaggg actggcccgg gccggtggtg gctgctgga      360
caagtggcgt cgcggtagcc ccttaccggg caaaggcccg gttggggctc tgttgccggc      420
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tatgtaacat atatatagag gggtagacag gttttgtaca cgaaatctag cgctgtccct      540
gctcccgtgc agagtaggag cggcgggtccc tgggtggtgca caacggctgc gcgtccggcg      600
gagccggagg tgcttcttgg ccgcttcttg ggttttgctc tcccaggctg ggctccaggg      660
gtgggggtga ggactggaaa ggggacaaac agaggccaaa ggggtgtcca gtcccgcca      720
cactcgggga tcccgcaacc cctaactgag catagcccar gtctaccccg gctttgcccg      780
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```

<210> 469

<211> 1257

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (549)..(549)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (589)..(589)

<223> n equals a,t,g, or c

<400> 469

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cgggcccagg agaggaccaa ggtgctgtct ttggccaaga ggattctgcg tttcaagaag      540
gaatacccn gctgcaccc caaggacccc cgcccttccc tgctggagnc cgacttcacg      600
gagtttgacg tgaagaattc tcacctgcca tcggaagttc tgtacatgct gaaaaacgct      660

```



```

cgggtcctgg gccactttga gaagccgctg ttccctggagc tttgcaaaca catcgtcttt 720
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```

<210> 470

<211> 3302

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3274)..(3274)

<223> n equals a,t,g, or c

<400> 470

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gctccagtcg tcagcccact tcctagctga acagcgcgag gggcgccgag cgagccgggt 180
cccaccatgg ccgcgaatta ttccagtacc agtaccgcga gagaacatgt caaagttaaa 240
accagctccc agccaggctt cctggaacgg ctgagcgaga cctcgggtgg gatgtttgtg 300
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agtgtggctc cggagaatga aggaaggctg gtgcacatca ttggcgctt acggacatcc 480
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gtggagatgt accaatgggt agaaactgag gagtccaggg agtacaccga ggatgggcag 600
gtgaagaagg agacgaggtt ttcttacaac actgaatgga ggtcagaaat catcaacagc 660
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tcagtatttt gtgtcactga gaagctttac aatggatgct tttgaaacaa gtatcagcaa 2340

```

```

aaggatttgt tttcactctg ggaggagagg gtggagaaag cacttgcttt catcctctgg 2400
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tattaaaagt tttgtaataa atttctaaat tatnaaaaaa aaaaaaaaaa aaaaaaaaaa 3300
aa 3302

```

&lt;210&gt; 471

&lt;211&gt; 959

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 471

```

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gttccccttc attggtgagg atgacaatga cgatgggtcac ccacttcac catctctgaa 180
tattccttat ggcatacggg atttaccacc tcctctttat tatcgccag tgaatacagt 240
ccccagttac cctgggaata cttacactga cacagggtta ccttcgtatc cctggattct 300
aacttctcct ggattcccct atgtctatca catcgtgggt ttcccttag ctactcagtt 360
gaatgttcct cctctccctc ctagggggtt cccgtttgtc cctccttcaa ggtttttttc 420
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tgctacagcc aagcctgctg ccccgagaacc tcacccttct cctctcttg aacaggcaaa 720
tcagtgaat tctctagaag agtaccatgg gttcatttct atactgatgc agaaataagt 780
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aaaaacattg ataattaaat aaataaaaata gataatttag accaaaaaaa aaaaaaaaaa 959

```

&lt;210&gt; 472

&lt;211&gt; 2227

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (289)..(289)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 472

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aacgctagac agatggggaa tgggaaaagaa aagaaaagctg cagacctcaa gttaaaattc 420
cctcaaaaac gtttttattt atctgtcttt tctgaaagga taaaggcttt ttgaaaatta 480
ttttctaaca aataacatga acacttctag aaaccctaga aaaacacaaa gtattcaaaa 540

```

```

tagaaagaaa aattacccat tactctttaa gccagcatta tccattgcgg tgcttttga 600
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gcagggtgtg ttttttttct ttgagatgga gtctcactct tgtcacccca gctggaatgt 720
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catgtgcctt acttttttaa aaaggagttt attgtattca ttggaatatg tgacgtaagc 2160
aataaaggga atgttagacg tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaa 2227

```

<210> 473

<211> 2214

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (289)..(289)

<223> n equals a,t,g, or c

<400> 473

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```

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```

<210> 474

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (137)..(137)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (450)..(450)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (465)..(465)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (488)..(488)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (585)..(585)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (619)..(619)

<223> n equals a,t,g, or c

<400> 474

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tgcacccctg accctctgtc tcatggscga rgcartgtga aggcggagat gctgcacatg 360
tacagccaga aggaccctgt catcctctgt gtgcgcctgg ccgtgctgct cgcggtgacc 420

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ctcactgtgc	cagtcgtgct	gttccctatn	cgccggggccc	tgcancagct	gctttttccca	480
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caagccccag	ctcatcttna	tctcccag				628

&lt;210&gt; 475

&lt;211&gt; 923

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (9)..(9)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 475

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&lt;210&gt; 476

&lt;211&gt; 1145

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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 <211> 1052  
 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 483

<211> 539

<212> DNA

<213> Homo sapiens

<400> 483

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<212> DNA

<213> Homo sapiens

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<222> (2621)..(2621)

<223> n equals a,t,g, or c

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<222> (2634)..(2634)

<223> n equals a,t,g, or c

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<222> (2650)..(2650)

<223> n equals a,t,g, or c

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<222> (2660)..(2660)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<211> 2207

<212> DNA

<213> Homo sapiens

<400> 485

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&lt;210&gt; 486

&lt;211&gt; 1347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 486

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 489

&lt;211&gt; 711

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (345)..(345)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 489

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&lt;210&gt; 490

&lt;211&gt; 1614

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 490

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 <212> DNA  
 <213> Homo sapiens

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 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<220>  
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 <211> 1191  
 <212> DNA  
 <213> Homo sapiens

<400> 492  
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<210> 493

<211> 1626

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (542)..(542)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (562)..(562)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<400> 493

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&lt;210&gt; 494

&lt;211&gt; 2351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 494

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&lt;210&gt; 495

&lt;211&gt; 1001

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 495

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&lt;210&gt; 496

&lt;211&gt; 669

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 496

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&lt;210&gt; 497

&lt;211&gt; 417

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 497

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&lt;210&gt; 498

&lt;211&gt; 1949

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1130)..(1130)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

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 <222> (1948)..(1948)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (78)..(78)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (948)..(948)  
 <223> n equals a,t,g, or c

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&lt;211&gt; 1525

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (78)..(78)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 500

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&lt;210&gt; 501

&lt;211&gt; 1311

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1036)..(1036)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1112)..(1112)

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<220>

<221> misc\_feature

<222> (1168)..(1168)

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<221> misc\_feature

<222> (1223)..(1223)

<223> n equals a,t,g, or c

<400> 501

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ttttttctaa gctgcaattc tctactgttt tcaagaaaaa tacaagttag cctatttaca      960
gaatgttttg aattgactcc tgtcctctgg ttaaaactcc tcttgagata attgatagct     1020
gaaaaggtag gatggncttc tcaaacttga ctccatcta aatcaacgct gagttgatta     1080
acttagatat caagaaaaat tgcctcatta gnttaccctt gaggagatgc ctatgaaggt     1140
acatcctttt tacaattaat aagacagntt tcacatgaag aaacaatttg aaatatTTAA     1200
taagaaaatg ggggtgaaggc aancattacg gttgggaaaa gaccatgcaa gcctttatag     1260
aggataacga tttatatatt cactattaat ttggccgggt aataggaacc t              1311

```

<210> 502

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 502

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ccacgcgtcc ggccagccag tccgcccgtc cggagcccgg ctgctgggg cagcatggcg      60
gggtcgccgc tgctctgggg gccgcgggcc gggggcgctc gccttttggg gctgctgctg     120
ctcggcctgt ttcggccgcc ccccgcgctc tgcgcggcgc cggtaaagga gccccgcggc     180
ctaagcgcag cgtctccgcc cttggctaga ctggcgctcc tcgccgcttc cggcggtcag     240
tgccccgagg tgaggcggcg gggcggtgac agacctggcg cgggcgctgg cgcattctgt     300
ggagccgaac gtcaggagcg ggcgcgggcc gaggcgacga ggctgaggat cagcaggcgc     360
gcgtcctggc gcagctgctg cgcgtctggg gcgccccccg caactctgat cgggctctgg     420
gcctggacga cgaccccgac gcgcctgcag cgcagctcgc tcgcgctctg ctccgcgccc     480
gccttgacct tgccgcccta gcagcccagc ttgtccccgc gcccgctccc gccgcggcgc     540

```

```

tccgaccccg gccccgggtc tacgacgacg gccccgcggg cccggatgct gaggaggcag 600
gcgacgagac acccgacgtg gaccccgagc tgttgaggta cttgctggga cggattcttg 660
cggaagcgc ggactccgag ggggtggcag ccccgcgccg cctccgccgt gccgcccacc 720
acgatgtggg ctctgagctg cccctgagg gcgtgctggg ggcgctgctg cgtgtgaaac 780
gcctagagac cccggcgccc caggtgcctg cagccgcct cttgccaccc tgagcactgc 840
ccggatcccg tgcaccctgg gaccagaag tgcctccgcc atcccgccac caggactgct 900
ccccgccagc acgtccagag caacttacc cggccagcca gccctctcac ccgaggatcc 960
ctacccctg gccccacaat aaacatgatc tgaagcagca aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1050

```

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<210> 503
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (525)..(525)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (578)..(578)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (581)..(581)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (620)..(620)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (629)..(630)
<223> n equals a,t,g, or c

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<400> 503
gtgaaacgcc tgggctcaag ctgattcacc tgcctccacc tcccacagtg ctgggattac 60
aaacatgatc cccacgccc agccaacaca aaacttctga tgctctgttt tctcatctgt 120
gaactggagc taaggctaag tggctgtgtc gttaataaag agtttgaatc agatggcctg 180
gcatgaagag tcaactggcct gagagaatgt caggggcatt tgtaaagtgt taaagggtg 240
aaaaatcctg agggattatt attattgcta ttgttggtat tattcacaga cacatycaac 300
agccattgtc tgcctcctta tctgtcatgc tttctgcacg agcgtcagcc tgagcttcaa 360
tctgtgtgta tatctgcagc ttacgtcctt gcacccctcc agaaccagc ttcctccttg 420
taggtttttc craagcagga tttgcacaag tggcgtgttt tcttaagtat ttattttgca 480
ggccatttac tggcatggc tatttttaca gtgggtaagg agcanggcta aaaataactt 540
agctcataac cagacaggtt ctgcatttga cattacgngg nattcatttg catccattt 600
ggtcgccttt ctggttaacn ggtagaatnn aagaaagctc acccgaa 647

```

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<210> 504
<211> 1321
<212> DNA
<213> Homo sapiens

```

```

<400> 504
gcggggggga ggaggagggg gaggagggag cggagatctc ggggctcgga gccggccgcc 60
gctccgctcc gatcgctgtg gggcttggtt ttttgggggt gggggggcgg gggggctcag 120

```

```

atatggaggc aaatgggagc caaggcacct cgggcagcgc caacgactcc cagcacgacc 180
ccggtaaaat gtttatcggt ggactgagct ggcagacctc accagatagc cttagagact 240
atthttagcaa atttggagaa attagagaat gtatgggtcat gagagatccc actacgaaac 300
gctccagagg cttcgggtttc gtcacgttcg cagacccagc aagtgtagat aaagtattag 360
gtcagcccca ccatgagtta gattccaaga cgattgacct caaagttgca tttcctcgtc 420
gagcgcaacc caagatgggtc acaagaacaa agaaaatatt tgtaggcggg ttatctcgca 480
acacagtagt ggaagatgta aagcaatatt tcgagyagtt tkgcaagggtg gaagatgcaa 540
tgctgatggt tgataaaact accaacaggc acagagggtt tggctttgtc acttttgaga 600
atgaagatgt tgtggagaaa gtctgtgaga ttcattttcca tgaaatcaat aataaaatgg 660
tagaatgtaa gaaagctcag ccgaaagaag tcattgttccc acctgggaca agaggccggg 720
cccggggact gccttacacc atggacgcgt tcattgcttg catggggatg ctgggtgagt 780
ctggacagga ccgacaggtca ccatggactg ggagggctat ggaggcctct actcccaact 840
gggtcaccta ccagtggggc aaactgcttc acctttctaa gcctcagttt ccttgtctgt 900
agatgaggat gataattccc cgttccaaga cagttgtgat gattaagtgt ggggtgtgtg 960
gtgtgcatgc atgtgtgtgt gtgtgtgtgt gtgtttgtat ttataatatt gccccatgcc 1020
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aaaagtcccc ctctatctgc ctacagccctc tcattctgag gggagttytt aagatgtaag 1140
gactcctggc tgacttgact tgtgtgggct aaggctacgt tttctaaaac ttgggagagg 1200
aggggaagtgg taagggtggg cgataatcct gtctatttaa atgattaaca tttttctctt 1260
gggatatcaa aatttgcatt taaatggatg ttttaaatag cctgttttac tctttatttg 1320
c 1321

```

```

<210> 505
<211> 997
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (855)..(855)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (881)..(881)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (916)..(916)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (957)..(957)
<223> n equals a,t,g, or c

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<400> 505
attggaagtt gttttgcaac ctgggctttt atacagaaga atacgaatca caggtgtgtg 60
agcatctact taattaatth gcttacagcc gatttcctgc ttactctggc attaccagtg 120
aaaattgttg ttgacttggg tgtggcacct tggaagctga agatattcca ctgccaagta 180
acagcctgcc tcattctatat caatatgtat ttatcaatta tcttcttagc atttgtcagc 240
attgaccgct gtcttcagct gacacacagc tgcaagatct accgaatata agaaccgga 300
tttgccaaaa tgatatcaac cgttgtgtgg ctaatgggtc ttcttataat ggtgccaaat 360
atgatgattc ccatcaaaga catcaaggaa aagtcaaagtg tgggttgtat ggagttttaa 420
aaggaatttg gaagaaattg gcatttgctg acaaatthtca tatgtgtagc aatattthta 480
aatttctcag ccatcattth aatatccaat tgccttgtaa ttgcacagct ctacagaaac 540
aaagataatg aaaattaccc aaatgtgaaa aaggctctca tcaacatact tttagtgacc 600
acgggctaca tcatatgctt tgttccttac cacattgtcc gaatcccgtg taccctcagc 660
cagacagaag tcataactga ttgctcaacc aggatttcac tcttcaaagc caaagaggct 720
acactgctcc tggctgtgtc gaacctgtgc tttgatccta tctgtacta tcacctctca 780

```

```

aaagcattcc gctcaaaggt cactgagact tttgcctcmc ctaaagagac caaggtyaga 840
aagaaaaatt aagangtgga aataatggct aaaagacagg ntttttgtgg taccaattct 900
gggcttttat ggaccntaaa gttattatag cttggaaggt aaaaaaaaaa aaagggnggg 960
cgctctagag gttccccgag gggccagctt aggtgtgc 997

```

<210> 506

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (422)..(423)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (427)..(427)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (437)..(437)

<223> n equals a,t,g, or c

<400> 506

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gaattcggca cgagggcggc accaggggagc ctggggcgccc ggggctccgc cgcgacccca 60
tcgggtagac cacagaagct ccgggaccct tccggcacct ctggacagcc caggatgctg 120
ttggccaccc tctcctcct cctccttgga ggcgctctgg cccatccaga ccggattatt 180
tttccaaatc atgcttgtag ggacccccca gcagtgtctt tagaagtgcg gggcacctta 240
cagaggcccc tgggtccggga cagccgcacc tcccctgcc aactgcacct gctcacaaaa 300
agagtgcac aaatgcttct attccatagc tacggcattg ctcagtaagt tgaggtcaaa 360
aataaaggaa tcatacatct caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
annaaanaaa aaaaaan 437

```

<210> 507

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 507

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ggatggcgct acgtctgctg cgagggcgcg cgcgcgagc tgcggcgggc gcgctgctga 60
ggctgaaagc gtctctagca gctgatatcc ccagacttgg atatagttcc tcatcccatc 120
acaagtacat ccccgaggag gcagtgtctt atgtacctgg aaatgatgaa aagaaaaataa 180
agaagattcc atccctgaat gtagattgtg cagtgtctga ctgtgaggat ggagtggctg 240
caaacaaaaa gaatgaagct cgactgagaa ttgtaaaaac tcttgaagac attgatctgg 300
gccctactga aaaatgtgtg agagtcaact cagtttccag tggctctggcg gaagaagacc 360
tagagaccct tttgcaatcc cgggtccttc cttccagcct gatgctacca aagggtggaaa 420
gtcctgaaga aatccagtgg gcagtgtgtg aagaaccct gaaggctcggg cctcaagtag 480
gtctctttct agatgcagtc cgttttttgg ggaraagact ttcgagccac atagggtgcam 540
caagtartaa agaaaccctg gatawtctct acgcccggca aaagattgtt gtcatagcga 600
aagccttttg tctccaagcc gtaratctgg kgkacattga ctttcgagat ggactkkgc 660
tgcttagaca gtcacgagaa ggagccgcca tgggcttcac tggtaagcag gtgattcacc 720
ctaaccaaat tgcctgtgtc caggagcagt tttctccttc ccctgaaaaa attaagtggg 780
ctgaagaact gattgtgcc tttaaagaac atcaacaatt aggaaagggg gcctttactt 840
tccaagggag tatgatcgac atgccattac tgaagcaggc ccagaacact gttacgcttg 900
ccacctccat caaggaaaaa tgatctgtta aatgaagctg tcatcaggct aaaggggtatt 960
gaagctgcag agggatcaac ttgtgcttgc cagaggacgc caatgaagtt tgaaacacca 1020
acaatcagag attttgttct tgttcctcat taaatcatga gcttttgtgc cgagaaaaaa 1080
aaaa 1084

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<210> 508  
 <211> 1914  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1889)..(1889)  
 <223> n equals a,t,g, or c

<400> 508  
 gtgtgagagg cctctctgga agttgtcccg ggtgttcgcc gctggagccc gggtcgagag 60  
 gacgaggtgc cgctgcctgg agaatcctcc gctgccgtcg gctcccggag cccagccctt 120  
 tcctaacccta acccaacctc gccaggtccc agccgccagc gcctgtccct gtcacggacc 180  
 ccagcgcttac catgcaccc gccgtcttcc tatccttacc cgacctcaga tgctcccttc 240  
 tgctcctggt aacttgggtt tttactcctg taacaactga aataacaagt cttgatacag 300  
 agaatataga tgaaatttta aacaatgctg atgttgcttt agtaaatttt tatgctgact 360  
 ggtgtcgttt cagtcagatg ttgcatccaa tttttgagga agcttccgat gtcattaagg 420  
 aagaatttcc aatgaaaaat caagttagtg ttgccagagt tgatttgtat cagcactctg 480  
 acatagccca gagatacagg ataagcaaat acccaaccct caaattgttt cgtaatggga 540  
 tgatgatgaa gagagaatac aggggtcagc gatcagtga agcattggca gattacatca 600  
 ggcaacaaaa aagtgacccc attcaagaaa ttcgggactt agcagaaatc accactcttg 660  
 atcgagcaa aagaaatata attggatatt ttgagcaaaa ggactcggac aactatagag 720  
 tttttgaacg agtagcgaat attttgcag atgactgtgc ctttctttct gcatttgggg 780  
 atgtttcaaa accggaagaa tatagtggcg acaacataat ctacaaacca ccagggcatt 840  
 ctgctccgga tatgtgttac ttgggagcta tgacaaattt tgatgtgact tacaattgga 900  
 ttcaagataa atgtgttctt cttgtccgag aaataacatt tgaaaatgga gaggaattga 960  
 cagaagaagg actgcctttt ctcatactct ttcacatgaa agaagataca gaaagttag 1020  
 aatatattcca gaatgaagta gctcggcaat taataagtga aaaaggtaca ataaactttt 1080  
 tacatgccga ttgtgacaaa tttagacatc ctcttctgca catacagaaa actccagcag 1140  
 attgtcctgt aatcgctatt gacagcttta ggcatatgta tgtgttttga gacttcaaag 1200  
 atgtattaat tcctggaaaa ctcaagcaat tcgtatttga cttacattct ggaaaactgc 1260  
 acagagaatt ccatcatgga cctgacccaa ctgatacagc cccaggagag caagcccaag 1320  
 atgtagcaag cagtccacct gagagctcct tccagaaact agcaccaggt gaatataggt 1380  
 atactctatt gagggatcga gatgagcttt aaaaacttga aaacagttt gtaagccttt 1440  
 caacagcagc atcaacctac gtggtggaaa tagtaaacct atattttcat aattctatgt 1500  
 gtatttttat tttgaataaa cagaaagaaa ttttgggttt ttaatttttt tctccccgac 1560  
 tcaaaatgca ttgtcattta atatagtagc ctcttaaaaa aaaaaaaaac ctgctaggat 1620  
 ttaaaaaataa aaatcagagg cctatctcca ctttaaatct gtcctgtaaa agttttataa 1680  
 atcaaatgaa aggtgacatt gccagaaact taccattaac ttgcactact agggtaggga 1740  
 ggacttaggg atgtttcctg tgtcgtatgt gcttttcttt ctttcatatg atcaattctg 1800  
 ttggtatttt cagtatctca tttctcaaag cttaaagagat atacattctg gatacttggg 1860  
 aggggaataa attaaagttt tcacactgna aaaaaaaaaa aaaaaaaaac tcga 1914

<210> 509  
 <211> 1776  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1748)..(1748)  
 <223> n equals a,t,g, or c

<400> 509  
 agccactgtg cccagcctcg gctcaggttt ttmaatacag tcttgacctt ggcatcagtt 60  
 atcctcacag catggttcta attaaacttc tagctctatt tcccttttcc tgctccctct 120  
 ctctacaact agtctttctc tgattgcccc gccctcaacc catctaaact agacccaggg 180  
 gaagcacctt ggtccccttc ctctctccca ctaccatcc aaccaatcac cagagcctgt 240  
 acattctata ttttcaacat cgattcaatt gtctacttct ttctagcctg cctctcttga 300  
 ctgggactcc ttgagccagc ctgatcacc ccaatccatcc ctcacactgt gcccatcttt 360



```

ctgaagtagg aatctgatca caccamcctg ctaaaaaacac tctggttctc cccacggcat 420
gtgggtgccct tgtatagctg gcaaagcctt gcatggcacg gccccagcct gtgcttcaac 480
tcaattgccc gactctctcc agctctgctg agccacctaa gtcacagatg gtttctctc 540
tcatctctgc tctcttccat gtgccatttc tgtggcttgg aatgttcttc cctcatctc 600
tttctggccc tttcccgta cacttagac gtgcatcttc ctctcgaaaa cctctagtga 660
agcctcccag ggccaggcag taccctcctc tggcttcttc tggatacaga ggaagaatct 720
gagcatcgat tctccatctc agcaggcctc tgtgtgcctg ctgactccga ctagaccaga 780
gatccgtaag gacagggatc gagttttttt tcttttaatk cactgcctca aaaatcctct 840
gtgcattacc tattcatcct ctctctctcc ttaacctgaa ccagtgatct tactgtctcc 900
atcattgttt ttttcttttc ttttcttttc tttttttttt ttgaggtgga gtctggctct 960
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tcaagcgatt ctccctgcctc agcctcccca gtagctggga ttacaggcat gcgctaccat 1080
ccccaactaa tttttgcctc cataattytg ccttttstag aatgtcatac aggtggaatt 1140
actcagtagt ctgccttttt cagattggct tctttcactt agtaatatgs tygttttttg 1200
agacagggtc ttgctctgtc gccaggcta gagtgtgggt gtgcgatctt agctcactga 1260
aacctccacc tcccagggtc aagtgaytct stgcctcag cctcccaggt agctgggact 1320
acaggcacgt gccaccatac ccggctaatt tgtggatttt tagtacagac gsggtttcgt 1380
catgttggcc agtgtgytgt tgaattcctg acctcaagt atccacctgc ctcagcctcc 1440
caaagtgttg cgattacagg tgtgagccac tgcgccaagc ctcathtagt aataygcatt 1500
taaactttct ccatgkcttt aatggcttga tagctcattt atttttatca wgggaatat 1560
cattgtctgg atggaccaca gtttatctt ccatccacct actgaaggac atctcggttg 1620
cttctaagtt ttggcaatta tgaataaagc tgctataacc atcaagtgca ggtttttgtg 1680
tggacctatt atcaactaat tcgggtaaat ctcaaggagt gcaattgctg gatccacagt 1740
aagagtngt ttagttttaa gtgcttgccc attttc 1776

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<210> 510

<211> 784

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (6)..(6)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (32)..(32)

<223> n equals a,t,g, or c

<400> 510

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ngagtntaat tgctggatca cacagtaaga gngtgggttag ttttaagtgg ctgtgccatt 60
ttgcattccc accagcaatg aatgagagtt tctgttgctc cacatttctca ctaccattcg 120
gtgttgctcag tgttttgcat tttggccatt ctagtaggtg ttacatgggt atctagtcatt 180
ttgaatgggc atatgatgtg gaacatcttt ttttttttat tttwttatta ttatacttta 240
agtttttaggg tacatgtgca caaygtgcag gttwgttaca tatgtataca tgtgccatgy 300
tgggtgtgctg caccaytaa ctgcgtcatyt agcattaggt atatctccya atgctattgg 360
aacatctttt catgtgttta tttgccatct gtatatcttc cctgatgagt tggggatgca 420
ttctttccat ctcatagctc ccagaaacta acatagcagt tggtaacagag ttggtgctca 480
acaaacatca gcttaggaac tatgtcctat gtttttttgt tttttttttt ttttaaaaag 540
gaatgtgagc tgttcccaa acgtatgtcc ttcccccatg cctctaccct gcccttccac 600
aaactttctg atcttcagca cacactaccc aaccatcaag gctgagactt cccgtggcca 660
gcagtgtctc atgctggctt caagccccac agcactgctt ttttcaactt ctcttgtgggt 720
ttagactgtc ttttagcccag caagagaatt cgatatcaag cttatcgata ccgtcgacct 780
cgag 784

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<210> 511  
 <211> 699  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (30)..(30)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (46)..(46)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n equals a,t,g, or c

<400> 511  
 ggttcatgct tnaaccccat ttgctggatn ctgctttgac cctgtntccc tgtactggtg 60  
 ttatgngaatt cctggcacac attgctatcc cactctgaga ggmcwtgagc aaagaamccc 120  
 cagtrgcaga agccacattg tgctcaggctc ttagttctaa caaacacccat tccccattaa 180  
 aaggaaccag gctccttaga gaaatggatg attccagggc tgtggcaggg taggtacaag 240  
 atgaacctaa agtgtcgttt tataaccagaa agtaagaaaag tattaaagtg tttaaaaaag 300  
 tgatgggagc atatcacaag gattcagaag ggataccaac tggctaaatc tggaacaatt 360  
 tgatcaccaa agtaagtaca ataataaatt ctaagctatt gaagtaaagg catttattat 420  
 gtgtagtaat aataaataga taatgagaga gaaatgagga ctcatgctta cagtaaaatg 480  
 ccaggagctg actggcataa atgtggaagg aaggctggag tgggaaaatt attattttgc 540  
 aaccatcatg gtaattacca gatcagataa ggatcaacag atgccaaatc tagggcaaatt 600  
 ttgatgagga gcagaatatt tgcaactgtct ttgagagttt ctcccagaga tcacttattt 660  
 gttgtaaaaa aaaagaaaaa aaaaaaaaaa aaactcgag 699

<210> 512  
 <211> 616  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (592)..(592)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (611)..(611)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (613)..(613)

<223> n equals a,t,g, or c

<400> 512

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<210> 513

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (513)..(513)

<223> n equals a,t,g, or c

<400> 513

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attgctcttt	tgggggactg	ttgttcttat	ttcaactata	gaaggatata	tgtggtcaat	300
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<210> 514

<211> 2027

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (294)..(294)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1976)..(1976)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1981)..(1981)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1985)..(1985)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2021)..(2021)

<223> n equals a,t,g, or c

<400> 514

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<210> 515

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (618)..(618)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (715)..(715)

<223> n equals a,t,g, or c

<400> 515

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&lt;210&gt; 516

&lt;211&gt; 1396

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1187)..(1187)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1325)..(1325)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1327)..(1327)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 516

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&lt;210&gt; 517

&lt;211&gt; 1654

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (872)..(872)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1516)..(1516)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1564)..(1564)

<223> n equals a,t,g, or c

<400> 517

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gcagctttcc ctttaccttg ggagatgcgc ttgccaggaa tcctaggctt cttttgtgtc      540
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ttgnatgagc accaagawta gcaagccata ctgstctgat tcatctgatt ttaatggaac     1620
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<210> 518

<211> 447

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (18)..(18)

<223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (435)..(435)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (445)..(445)  
 <223> n equals a,t,g, or c

<400> 518  
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 ataattattat agactatgga ctatttgtca tagatgtttc tatgtttgct tctctgcaaa 180  
 ttaagaaaag ttaactatct tcttaaagtt ttgattttcta atttctcgat ttgggcatac 240  
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 atacattact tcactattga cgggatgacc gtgggttttg aagcttatga gttcaaaagt 360  
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<210> 519  
 <211> 641  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

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<210> 520  
 <211> 1397  
 <212> DNA  
 <213> Homo sapiens

<400> 520  
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&lt;210&gt; 521

&lt;211&gt; 1368

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 521

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&lt;210&gt; 522

&lt;211&gt; 1763

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 522

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&lt;211&gt; 1274

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 523

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&lt;210&gt; 524

&lt;211&gt; 1124

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 524

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 525

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&lt;210&gt; 526

&lt;211&gt; 876

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 526

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&lt;210&gt; 527

&lt;211&gt; 1586

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 527

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 aaaatacgcc caggggggtgc ccagtgtggc ggggggtccc gttccggagn tgctcaagga 300

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1431)..(1432)
<223> n equals a,t,g, or c

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<210> 531
<211> 1234
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1058)..(1058)
<223> n equals a,t,g, or c

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&lt;400&gt; 531

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&lt;210&gt; 532

&lt;211&gt; 3095

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 532

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<210> 533

<211> 1395

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1338)..(1338)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1382)..(1384)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1390)..(1390)

<223> n equals a,t,g, or c

<400> 533

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<210> 534

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (260)..(260)

<223> n equals a,t,g, or c

<400> 534

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tcctgtctgc agctgtgggtc catgatgtgg tgcggaagcc caggcttctc aaagctctta 240
cgttgctggg attcggtggn ggggartcgg 270

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<210> 535

<211> 2324

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (15)..(15)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (23)..(23)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (92)..(92)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (95)..(95)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

<400> 535

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&lt;210&gt; 536

&lt;211&gt; 1697

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1627)..(1627)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 536

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<210> 537

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (726)..(728)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (899)..(899)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (901)..(901)

<223> n equals a,t,g, or c

<400> 537

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; n equals a,t,g, or c

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&lt;213&gt; Homo sapiens

&lt;400&gt; 540

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&lt;210&gt; 543

&lt;211&gt; 1739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 543

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&lt;210&gt; 544

&lt;211&gt; 538

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (462)..(462)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (498)..(498)

&lt;223&gt; n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c



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 <223> n equals a,t,g, or c

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 <221> misc\_feature  
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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 aattgtctga gtagtgcct tgttctttgc tgacaganca ggagcagagt gtggaatgaa 180  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

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 <221> misc\_feature  
 <222> (1115)..(1115)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1142)..(1142)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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&lt;210&gt; 548

&lt;211&gt; 1775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (820)..(820)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 548

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&lt;210&gt; 549

&lt;211&gt; 866

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (14)..(14)

&lt;223&gt; n equals a,t,g, or c

<220>  
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 <222> (27)..(27)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (105)..(105)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2045)..(2045)  
 <223> n equals a,t,g, or c

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&lt;211&gt; 891

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 551

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&lt;210&gt; 552

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 552

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&lt;211&gt; 1340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<400> 554

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&lt;210&gt; 555

&lt;211&gt; 1237

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

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&lt;210&gt; 556

&lt;211&gt; 1681

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

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&lt;210&gt; 557

&lt;211&gt; 1863

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

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&lt;210&gt; 558

&lt;211&gt; 1134

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 558

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&lt;210&gt; 559

&lt;211&gt; 626

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 559

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&lt;210&gt; 560

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (41)..(41)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 560

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&lt;210&gt; 561

&lt;211&gt; 1760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1693)..(1693)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1748)..(1748)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 561

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&lt;210&gt; 562

&lt;211&gt; 880

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 562

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&lt;211&gt; 1106

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (857)..(857)

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<220>

<221> misc\_feature

<222> (1037)..(1037)

<223> n equals a,t,g, or c

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<222> (1058)..(1058)

<223> n equals a,t,g, or c

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<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<222> (544)..(544)

<223> n equals a,t,g, or c

<400> 564

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&lt;211&gt; 1590

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 565

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&lt;210&gt; 566

&lt;211&gt; 1540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 566

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&lt;210&gt; 567

&lt;211&gt; 1179

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 567

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&lt;211&gt; 2467

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 568

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<211> 2541

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (388)..(388)

<223> n equals a,t,g, or c

<400> 569

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&lt;210&gt; 570

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

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&lt;210&gt; 571

&lt;211&gt; 1450

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 571

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&lt;210&gt; 572

&lt;211&gt; 1250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 572

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&lt;210&gt; 573

&lt;211&gt; 1792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 573

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&lt;210&gt; 574

&lt;211&gt; 1673

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 574

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&lt;210&gt; 575

&lt;211&gt; 2084

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; n equals a,t,g, or c

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<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 577

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ccc 1083

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<210> 578

<211> 1904

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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&lt;210&gt; 579

&lt;211&gt; 720

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 579

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&lt;210&gt; 580

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (957)..(957)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (964)..(964)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 580

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 <212> DNA  
 <213> Homo sapiens

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 <222> (241)..(241)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<210> 582  
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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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&lt;210&gt; 583

&lt;211&gt; 1239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

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<210> 584

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

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<222> (485)..(486)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (493)..(493)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (496)..(496)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (587)..(587)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (633)..(633)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1330)..(1330)

<223> n equals a,t,g, or c

<400> 584

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<210> 585

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 585

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<210> 586

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (646)..(646)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (670)..(670)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (696)..(696)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (707)..(707)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

&lt;222&gt; (718)..(718)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 586

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&lt;210&gt; 587

&lt;211&gt; 935

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (6)..(6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (14)..(14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (16)..(16)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (50)..(50)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (95)..(95)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (101)..(101)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (139)..(139)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (176)..(176)

<223> n equals a,t,g, or c

<400> 587

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<210> 588

<211> 871

<212> DNA

<213> Homo sapiens

<400> 588

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cagtacttct	ggaagagatc	tacacgcaca	agaatctctt	tactgagagg	ctgaataaga	360
tatctgatgg	gctgaaggag	aaggagcccc	acctctctcc	atgaatgcct	tcccggctcc	420
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<210> 589

<211> 881

<212> DNA

<213> Homo sapiens

<400> 589

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acctgcagat	cctctgggtg	accccagggc	caccacaga	actttctcaa	agtattcact	180
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ataaaacagt	acttctggaa	gagatctaca	cgcacaagaa	tctctttact	gagaggctga	360
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cggctccatc	tcctacttgc	accccagaa	cccttggctc	tgctgccttc	cccagcacct	480
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cggacctccc	tgtgggctgt	gagtcctcag	agtgtcttac	tcctggccat	agctggagat	600
gtttctttta	ctggcaagg	aagaaggagg	cagtaaaagg	acagggcagc	ccgcatgtct	660
tccagaagtg	aacagaggcc	gcagctacca	ccgtcacaaa	gttactcat	ctctgggtcc	720
cggtgacccc	atccccccat	acctccatc	ctgggtcctg	gggccccaaa	gctctgaggc	780

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attaaaaacc ctcttcataa aaaaaaaaaa aaaaaactcg a 881
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<210> 590
<211> 810
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (688)..(688)
<223> n equals a,t,g, or c
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<400> 590
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gacaactgca tagaagccca caacgaatgg cgtggcgaag tcaaccctcc cgcggccgac 180
atgaaataca tgatttgga taaagggtta gcaaagatgg ctaaagcatg gggcaaacca 240
gtgcaaatat gaacataatg actgtttgga taaatcatat aaatgctatg cagctttkga 300
awawgttgga gaaaatatct ggtaggtgg aataaagtca ttcacaccaa gacatgccat 360
tacggcttgg tataatgaaa cccaatttta tgattttgat agtctatcat gctccagagt 420
ctgtggccat tatacacagt tagtttgggc caattcattt tatgtcggtk gtgcarttgc 480
aatgtgtcct aaccttgggg gagcttcaac tgcaatatat gtatgcaact acggacctgc 540
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acctcagcag acagccttta atccatttca gcttaggttt tcttctctcg agaattcttt 720
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<210> 591
<211> 1092
<212> DNA
<213> Homo sapiens
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<400> 591
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tttgtgaata ccctatctga ctcttgggg ccaggcacag tgggcattca tggagattct 600
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aaccagcgct ccagataacc tcaggggaacc agcatttccc aaaccgcaga ctacatcttt 960
agaggaagca caactgtgcc ttttctgaa aatccctttt tctggtggaa ttgagaaaga 1020
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aaaaaaaaaa aa 1092
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<210> 592
<211> 284
<212> DNA
<213> Homo sapiens
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<220>
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<221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<400> 592  
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 gggggggggg gggggggggg gggggggggg gggggcggtg ataagctacc ctgtctcacc 180  
 atgtgctggt gtggaaacgg gggccagcca gcacgcctca aggtagatgg aatccccact 240  
 ggtcagagaa aaagctatgc ggacactcca gcttggcctg ggtc 284

<210> 593  
 <211> 1494  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (52)..(52)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (453)..(453)  
 <223> n equals a,t,g, or c

<400> 593  
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 ttttgtagtc agagtaagct gggggccagc tttcaatctt ctgcatatgg ctagccagta 180  
 atcccagcac cattatttaa atggggactt ctttccccat tgcttggttt tgtcagcttt 240  
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 cttggctagg ctcttttttg gttccatatt aantttaaag tagtttctaa ttctgtgaag 480  
 aatgtcattg gtagtttgat aggatagcat tgaactatct gctcaactca acattttagg 540  
 aattttattc tgctgtctag tgctcaaaac ttgcagctag aattgaggga agagagagac 600  
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<210> 594  
 <211> 1014  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (12)..(12)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (83)..(83)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (124)..(124)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (929)..(929)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1000)..(1000)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1007)..(1007)

<223> n equals a,t,g, or c

<400> 594

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<210> 595  
 <211> 745  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (312)..(312)  
 <223> n equals a,t,g, or c

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 aatgccttca antgccaacg tggagcagtg gtyygtggt ttgccatgca agaatacaac 360  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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 tgggtgtactc tgaggcgcga ttgtgtgaaa ggtgggctaa ggtgcctgtt cgaccacatc 180  
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&lt;210&gt; 597

&lt;211&gt; 2694

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (258)..(258)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (925)..(925)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 597

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&lt;210&gt; 598

&lt;211&gt; 2298

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (4)..(4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1653)..(1653)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 598

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<210> 599

<211> 928

<212> DNA

<213> Homo sapiens

<400> 599

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<210> 600

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (350)..(350)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (376)..(376)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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 <223> n equals a,t,g, or c

<220>  
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<210> 601  
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 <213> Homo sapiens

<220>  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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 <223> n equals a,t,g, or c

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<210> 603  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<400> 603  
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&lt;210&gt; 604

&lt;211&gt; 1404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1351)..(1351)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 604

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&lt;210&gt; 605

&lt;211&gt; 1598

&lt;212&gt; DNA

<213> Homo sapiens

<220>

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<222> (1067)..(1067)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1069)..(1069)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1577)..(1577)

<223> n equals a,t,g, or c

<400> 605

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<210> 606

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (517)..(517)

<223> n equals a,t,g, or c

<400> 606

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&lt;210&gt; 607

&lt;211&gt; 1046

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (14)..(14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (33)..(33)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (441)..(441)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (460)..(460)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 607

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&lt;210&gt; 608

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (786)..(786)

&lt;223&gt; n equals a,t,g, or c

<220>  
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 <222> (819)..(819)  
 <223> n equals a,t,g, or c

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<210> 609  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c

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<210> 610  
 <211> 1265  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (766)..(766)  
 <223> n equals a,t,g, or c

<400> 610  
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&lt;210&gt; 611

&lt;211&gt; 1012

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 611

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&lt;210&gt; 612

&lt;211&gt; 754

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 612

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa			754

&lt;210&gt; 613

&lt;211&gt; 667

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 613

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aaaaaaa						667

&lt;210&gt; 614

&lt;211&gt; 2025

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 614

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&lt;210&gt; 621

&lt;211&gt; 314

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 621

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aaaaaaaaaa	aagg					314

&lt;210&gt; 622

&lt;211&gt; 1796

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (417)..(417)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 622

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&lt;210&gt; 623

&lt;211&gt; 2136

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

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&lt;210&gt; 624

&lt;211&gt; 4385

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3476)..(3476)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 624

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&lt;210&gt; 625

&lt;211&gt; 4386

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3477)..(3477)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 625

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cactgctccc atttgtgggg ggacattagc aacatcactc agaagcctgt gttcttcaag 3240
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tcagctcatt ttttaaccaa taggccgaaa tcggcaaaat cccttataaa tcaaaaagaat 4320
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ttatcg

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&lt;210&gt; 626

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 626

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Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
  1             5             10            15

Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
          20             25            30

Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Leu
      35             40            45

Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe Phe Asn Pro Lys Phe
      50             55            60

Lys Glu Asp Trp Lys Leu Leu Lys Arg Arg Val Thr Lys Lys Ser Gly
      65             70            75            80

Ser Val Ser Val Ser Ile Ser Ser Gln Gly Gly Cys Leu Glu Gln Asp
          85             90            95

Phe Tyr Tyr Asp Cys Gly Met Tyr Ser His Leu Gln Gly Asn Leu Thr
      100            105           110

Val Cys Asp Cys Cys Glu Ser Phe Leu Leu Thr Lys Pro Val Ser Cys
      115            120           125

Lys His Leu Ile Lys Ser His Ser Cys Pro Ala Leu Ala Val Ala Ser

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130 135 140

Cys Gln Arg Pro Glu Gly Tyr Trp Ser Asp Cys Gly Thr Gln Ser Ala  
 145 150 155 160

His Ser Asp Tyr Ala Asp Glu Glu Asp Ser Phe Val Ser Asp Ser Ser  
 165 170 175

Asp Gln Val Gln Ala Cys Gly Arg Ala Cys Phe Tyr Gln Ser Arg Gly  
 180 185 190

Phe Pro Leu Val Arg Tyr Ala Tyr Asn Leu Pro Arg Val Lys Asp  
 195 200 205

<210> 627  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 627

Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly  
 1 5 10 15

Ile Tyr Cys Leu Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly  
 20 25 30

Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu  
 35 40 45

Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr  
 50 55 60

His Arg Gly Leu Ile Pro Tyr Val  
 65 70

<210> 628  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 628

Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val  
 1 5 10 15

Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala  
 20 25 30

His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro  
 35 40 45

Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser  
 50 55 60

Asp Val Asp Glu Phe Leu Asp Lys Phe Leu Ser Ala Gly Val Lys Gln  
 65 70 75 80

Ser Asp Leu Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser

85 90 95

Met Glu Glu Thr  
100

<210> 629  
<211> 114  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any amino acid

<400> 629  
Met Ala Gly Pro Arg Ala Ser Thr Gly Pro Arg Pro Xaa Cys Leu Val  
1 5 10 15  
Leu Phe Leu Phe Asn Phe Ile Phe Cys Phe Met Ser Val Cys Pro Pro  
20 25 30  
Thr Pro Thr Pro Phe Ser Val Lys Trp Gly Ala Leu Gly Glu Ser Leu  
35 40 45  
Leu Pro Pro Ser Leu Ser Gln Asp Leu Pro Pro Arg His Gln Pro Ser  
50 55 60  
Leu Trp Thr Arg Gln Arg Ala Asp Arg Val Gly Arg Gly Leu Arg Val  
65 70 75 80  
Ala Arg Ala Ser Pro Pro Ala Asn Gly Pro Leu Leu Arg Pro Pro Val  
85 90 95  
Ser Pro Cys Pro Phe Leu Lys Gln Asn Ala Leu Val Cys Lys Pro Leu  
100 105 110  
Asp Ala

<210> 630  
<211> 131  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any amino acid

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any amino acid

<220>  
<221> SITE

<222> (49)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any amino acid

<400> 630  
 Met Trp Ser Val Ile Arg Ser Leu Cys Pro Ser Arg Leu Gln Ser Leu  
 1 5 10 15  
 His Val Cys Phe Cys Pro Arg Leu Cys Leu Ala Val Pro Cys Val Phe  
 20 25 30  
 His Leu Ser Ser Pro Trp Phe His Val Arg Xaa Xaa Phe Phe Ser Gly  
 35 40 45  
 Xaa Pro Gly Cys Ile Trp Gly Ile Cys Phe Val Gly Leu Leu Leu Gly  
 50 55 60  
 Ala Xaa Arg Pro Arg Ser Gly Cys Leu Cys Ser Pro Ser Xaa Cys Leu  
 65 70 75 80  
 Trp Ser Leu Val Val Cys Glu Ser Ile Cys Leu Pro Arg Xaa Gly Pro  
 85 90 95  
 Asn Gln Ala Pro Pro Xaa Pro Leu Phe Leu Ser Leu Asn Leu Pro Phe  
 100 105 110  
 Leu Phe Gln Pro Leu Gln Met Arg Trp Leu Ser Ala Val Gly Trp Arg  
 115 120 125  
 Glu Ala Met  
 130

<210> 631  
 <211> 182  
 <212> PRT  
 <213> Homo sapiens

<400> 631  
 Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly  
 1 5 10 15

Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg  
                   20                  25                  30  
 Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys  
                   35                  40                  45  
 Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln  
                   50                  55                  60  
 Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu  
                   65                  70                  75                  80  
 Leu Leu Glu Glu Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile  
                   85                  90                  95  
 Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn  
                   100                  105                  110  
 Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp  
                   115                  120                  125  
 Ile Ser Gly Thr Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr  
                   130                  135                  140  
 Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys  
                   145                  150                  155                  160  
 Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His  
                   165                  170                  175  
 Ile Ser His Asp Glu Leu  
                   180

<210> 632  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 632  
 Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn  
   1                  5                  10                  15  
 Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly  
                   20                  25                  30  
 Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu  
                   35                  40                  45  
 Ser

<210> 633  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 633

Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val  
 1 5 10 15

Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val  
 20 25 30

Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys  
 35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys  
 50 55 60

Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala  
 65 70 75 80

Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe  
 85 90 95

Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro Gly Pro  
 100 105 110

Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys  
 115 120 125

Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val  
 130 135 140

Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu  
 145 150 155 160

Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val  
 165 170 175

Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro  
 180 185 190

Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala  
 195 200 205

Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val  
 210 215

&lt;210&gt; 634

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu  
 1 5 10 15

Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp  
 20 25 30

&lt;210&gt; 635

&lt;211&gt; 62



<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any amino acid

<400> 635  
 Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Xaa  
           1                  5                  10                  15  
 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys  
                   20                  25                  30  
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu  
                   35                  40                  45  
 Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu  
           50                  55                  60

<210> 636  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 636  
 Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro Ala Trp Val Leu  
           1                  5                  10                  15  
 Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala Pro Gly Arg Gly  
                   20                  25                  30  
 His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp Pro Lys His Cys  
                   35                  40                  45  
 Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu Phe Ser Leu Asn  
           50                  55                  60  
 Ser Asn Arg Thr Val Phe Thr Ala Ile Gln Arg Val Ala Leu Gly Trp  
           65                  70                  75                  80  
 Thr Phe Trp Val Gln Ala Asn Leu Val Pro Arg Cys Thr  
                   85                  90

<210> 637  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 637  
 Met Cys Tyr Leu Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile

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      1              5              10              15
His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys
      20              25              30
Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly
      35              40              45
Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn
      50              55              60
Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile
      65              70              75              80
Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr
      85              90              95
Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Gln
      100              105              110
Leu Val Leu Glu Asn Val Lys Val Leu Lys
      115              120

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&lt;210&gt; 638

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 638

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Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu
  1              5              10              15
His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr
      20              25              30
Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr
      35              40              45
Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr
      50              55              60
Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp
      65              70              75              80
Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met
      85              90              95
Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu
      100              105              110
Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser
      115              120              125
Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser

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130                      135                      140  
 Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val  
 145                      150                      155                      160  
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr  
 165                      170                      175  
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr  
 180                      185                      190  
 Arg Val Leu Phe Ile Tyr  
 195

<210> 639  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any amino acid

<400> 639  
 Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn  
 1                      5                      10                      15  
 Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile  
 20                      25                      30  
 Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys  
 35                      40                      45  
 Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe  
 50                      55                      60  
 Val Val  
 65

<210> 640  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (207)  
 <223> Xaa equals any amino acid

<400> 640  
 Met Pro Gly Leu Gly Arg Pro Arg Gln Ala Arg Trp Thr Leu Met Leu  
 1                      5                      10                      15  
 Leu Leu Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu  
 20                      25                      30

Cys His Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu  
                   35                                  40                                  45  
 Leu Thr Glu Leu Thr Lys Leu Leu Leu Cys Ala Phe Ser Leu Leu Val  
                   50                                  55                                  60  
 Gly Trp Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala  
                   65                                  70                                  75                                  80  
 Pro Phe Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Asn Leu Val  
                                   85                                  90                                  95  
 Ile Tyr Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser  
                   100                                  105                                  110  
 Asn Leu Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg  
                   115                                  120                                  125  
 His Arg Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Leu Met Ala  
                   130                                  135                                  140  
 Ala Gly Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr  
                   145                                  150                                  155                                  160  
 Leu Pro Ser Pro Pro Pro Ala Ala Ala Ala Ser Pro Met Pro Leu His  
                                   165                                  170                                  175  
 Ile Thr Pro Leu Gly Leu Leu Leu Leu Ile Leu Tyr Cys Leu Ile Ser  
                   180                                  185                                  190  
 Gly Leu Ser Ser Val Tyr Thr Glu Leu Leu Met Lys Arg Gln Xaa Leu  
                   195                                  200                                  205  
 Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr Thr Phe Gly Val Leu Leu  
                   210                                  215                                  220  
 Asn Leu Gly Leu His Ala Gly Gly Gly Ser Gly Pro Gly Leu Leu Glu  
                   225                                  230                                  235                                  240  
 Gly Phe Ser Gly Trp Ala Ala Leu Val Val Leu Ser Gln Ala Leu Asn  
                                   245                                  250                                  255  
 Gly Leu Leu Met Ser Ala Val Met Lys His Gly Ser Ser Ile Thr Arg  
                   260                                  265                                  270  
 Leu Phe Val Val Ser Cys Ser Leu Val Val Asn Ala Val Leu Ser Ala  
                   275                                  280                                  285  
 Val Leu Leu Arg Leu Gln Leu Thr Ala Ala Phe Phe Leu Ala Thr Leu  
                   290                                  295                                  300  
 Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly Ser Arg  
                   305                                  310                                  315

&lt;210&gt; 641

&lt;211&gt; 446

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 641

Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser  
 1 5 10 15  
 His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser  
 20 25 30  
 Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp  
 35 40 45  
 Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu Trp Gln Ala Leu  
 50 55 60  
 Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His Val Arg Leu Asn Leu  
 65 70 75 80  
 Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln Tyr Glu Asp Lys Phe Arg  
 85 90 95  
 Asn Asn Leu Lys Gly Lys Arg Leu Asp Ile Asn Thr Asn Thr Tyr Thr  
 100 105 110  
 Ser Gln Asp Leu Lys Ser Ala Leu Ala Lys Phe Lys Glu Gly Ala Glu  
 115 120 125  
 Met Glu Ser Ser Lys Glu Asp Lys Ala Arg Gln Ala Glu Val Lys Arg  
 130 135 140  
 Leu Phe Arg Pro Ile Glu Glu Leu Lys Lys Asp Phe Asp Glu Leu Asn  
 145 150 155 160  
 Val Val Ile Glu Thr Asp Met Gln Ile Met Val Arg Leu Ile Asn Lys  
 165 170 175  
 Phe Asn Ser Ser Ser Ser Ser Leu Glu Glu Lys Ile Ala Ala Leu Phe  
 180 185 190  
 Asp Leu Glu Tyr Tyr Val His Gln Met Asp Asn Ala Gln Asp Leu Leu  
 195 200 205  
 Ser Phe Gly Gly Leu Gln Val Val Ile Asn Gly Leu Asn Ser Thr Glu  
 210 215 220  
 Pro Leu Val Lys Glu Tyr Ala Ala Phe Val Leu Gly Ala Ala Phe Ser  
 225 230 235 240  
 Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly Ala Leu Gln  
 245 250 255  
 Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr Ala Lys Lys  
 260 265 270  
 Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe Pro Tyr Ala  
 275 280 285  
 Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu Arg Thr Leu  
 290 295 300  
 Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val Val Thr Leu  
 305 310 315 320

Leu Tyr Asp Leu Val Thr Glu Lys Met Phe Ala Glu Glu Glu Ala Glu  
                     325                                    330                                    335  
 Leu Thr Gln Glu Met Ser Pro Glu Lys Leu Gln Gln Tyr Arg Gln Val  
                     340                                    345                                    350  
 His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu Ile Thr Ala  
                     355                                    360                                    365  
 His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys Val Leu Gln  
                     370                                    375                                    380  
 Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr Arg Gln Asp  
 385                                    390                                    395                                    400  
 Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val  
                     405                                    410                                    415  
 Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly Tyr Phe Gln  
                     420                                    425                                    430  
 Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg  
                     435                                    440                                    445

&lt;210&gt; 642

&lt;211&gt; 563

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser  
   1                                    5                                    10                                    15  
 Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly  
                     20                                    25                                    30  
 Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln  
                     35                                    40                                    45  
 Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys  
                     50                                    55                                    60  
 Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys  
   65                                    70                                    75                                    80  
 Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro  
                     85                                    90                                    95  
 Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu  
                     100                                    105                                    110  
 Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly  
                     115                                    120                                    125  
 Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala  
                     130                                    135                                    140  
 Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala  
 145                                    150                                    155                                    160

Met Gln Asn Arg Leu Pro Cys Ile Tyr Leu Val Asp Ser Gly Gly Ala  
 165 170 175  
 Tyr Leu Pro Arg Gln Ala Asp Val Phe Pro Asp Arg Asp His Phe Gly  
 180 185 190  
 Arg Thr Phe Tyr Asn Gln Ala Ile Met Ser Ser Lys Asn Ile Ala Gln  
 195 200 205  
 Ile Ala Val Val Met Gly Ser Cys Thr Ala Gly Gly Ala Tyr Val Pro  
 210 215 220  
 Ala Met Ala Asp Glu Asn Ile Ile Val Arg Lys Gln Gly Thr Ile Phe  
 225 230 235 240  
 Leu Ala Gly Pro Pro Leu Val Lys Ala Ala Thr Gly Glu Glu Val Ser  
 245 250 255  
 Ala Glu Asp Leu Gly Gly Ala Asp Leu His Cys Arg Lys Ser Gly Val  
 260 265 270  
 Ser Asp His Trp Ala Leu Asp Asp His His Ala Leu His Leu Thr Arg  
 275 280 285  
 Lys Val Val Arg Asn Leu Asn Tyr Gln Lys Lys Leu Asp Val Thr Ile  
 290 295 300  
 Glu Pro Ser Glu Glu Pro Leu Phe Pro Ala Asp Glu Leu Tyr Gly Ile  
 305 310 315 320  
 Val Gly Ala Asn Leu Lys Arg Ser Phe Asp Val Arg Glu Val Ile Ala  
 325 330 335  
 Arg Ile Val Asp Gly Ser Arg Phe Thr Glu Phe Lys Ala Phe Tyr Gly  
 340 345 350  
 Asp Thr Leu Val Thr Gly Phe Ala Arg Ile Phe Gly Tyr Pro Val Gly  
 355 360 365  
 Ile Val Gly Asn Asn Gly Val Leu Phe Ser Glu Ser Ala Lys Lys Gly  
 370 375 380  
 Thr His Phe Val Gln Leu Cys Cys Gln Arg Asn Ile Pro Leu Leu Phe  
 385 390 395 400  
 Leu Gln Asn Ile Thr Gly Phe Met Val Gly Arg Glu Tyr Glu Ala Glu  
 405 410 415  
 Gly Ile Ala Lys Asp Gly Ala Lys Met Val Ala Ala Val Ala Cys Ala  
 420 425 430  
 Gln Val Pro Lys Ile Thr Leu Ile Ile Gly Gly Ser Tyr Gly Ala Gly  
 435 440 445  
 Asn Tyr Gly Met Cys Gly Arg Ala Tyr Ser Pro Arg Phe Leu Tyr Ile  
 450 455 460  
 Trp Pro Asn Ala Arg Ile Ser Val Met Gly Gly Glu Gln Ala Ala Asn  
 465 470 475 480

[illegible]

```
<210> 643
<211> 53
<212> PRT
<213> Homo sapiens
```

```

<400> 643
Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser
 1          5          10          15

Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro
 20          25          30

Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile
 35          40          45

Ser Met Ser Leu Ser
 50

```

```
<210> 644
<211> 607
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (242)  
<223> Xaa equals any amino acid
```

```

<400> 644
Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu Val Phe
  1             5             10             15

Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly Ala Val
      20             25             30

Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr Leu Gln
      35             40             45

Ser Pro Ser Glu Ala Thr Ala Thr Arg Pro Ala Val Pro Gly Leu Pro

```



50					55					60					
Thr	Val	Val	Pro	Thr	Leu	Val	Thr	Pro	Ser	Ala	Pro	Gly	Asn	Arg	Thr
65					70					75					80
Val	Asp	Leu	Phe	Pro	Val	Leu	Pro	Ile	Cys	Val	Cys	Asp	Leu	Thr	Pro
				85					90					95	
Gly	Ala	Cys	Asp	Ile	Asn	Cys	Cys	Cys	Asp	Arg	Asp	Cys	Tyr	Leu	Leu
			100					105					110		
His	Pro	Arg	Thr	Val	Phe	Ser	Phe	Cys	Leu	Pro	Gly	Ser	Val	Arg	Ser
		115					120					125			
Ser	Ser	Trp	Val	Cys	Val	Asp	Asn	Ser	Val	Ile	Phe	Arg	Ser	Asn	Ser
		130				135					140				
Pro	Phe	Pro	Ser	Arg	Val	Phe	Met	Asp	Ser	Asn	Gly	Ile	Arg	Gln	Phe
145					150					155					160
Cys	Val	His	Val	Asn	Asn	Ser	Asn	Leu	Asn	Tyr	Phe	Gln	Lys	Leu	Gln
				165					170					175	
Lys	Val	Asn	Ala	Thr	Asn	Phe	Gln	Ala	Leu	Ala	Ala	Glu	Phe	Gly	Gly
			180					185					190		
Glu	Ser	Phe	Thr	Ser	Thr	Phe	Gln	Thr	Gln	Ser	Pro	Pro	Ser	Phe	Tyr
		195					200					205			
Arg	Ala	Gly	Asp	Pro	Ile	Leu	Thr	Tyr	Phe	Pro	Lys	Trp	Ser	Val	Ile
	210					215					220				
Ser	Leu	Leu	Arg	Gln	Pro	Ala	Gly	Val	Gly	Ala	Gly	Gly	Leu	Cys	Ala
225					230					235					240
Glu	Xaa	Asn	Pro	Ala	Gly	Phe	Leu	Glu	Ser	Lys	Ser	Thr	Thr	Cys	Thr
				245					250					255	
Arg	Phe	Phe	Lys	Asn	Leu	Ala	Ser	Ser	Cys	Thr	Leu	Asp	Ser	Ala	Leu
			260					265					270		
Asn	Ala	Ala	Ser	Tyr	Tyr	Asn	Phe	Thr	Val	Leu	Lys	Val	Pro	Arg	Ser
		275					280					285			
Met	Thr	Asp	Pro	Gln	Asn	Met	Glu	Phe	Gln	Val	Pro	Val	Ile	Leu	Thr
		290				295					300				
Ser	Gln	Ala	Asn	Ala	Pro	Leu	Leu	Ala	Gly	Asn	Thr	Cys	Gln	Asn	Val
305					310					315					320
Val	Ser	Gln	Val	Thr	Tyr	Glu	Ile	Glu	Thr	Asn	Gly	Thr	Phe	Gly	Ile
				325					330					335	
Gln	Lys	Val	Ser	Val	Ser	Leu	Gly	Gln	Thr	Asn	Leu	Thr	Val	Glu	Pro
				340				345					350		
Gly	Ala	Ser	Leu	Gln	Gln	His	Phe	Ile	Leu	Arg	Phe	Arg	Ala	Phe	Gln
		355					360					365			
Gln	Ser	Thr	Ala	Ala	Ser	Leu	Thr	Ser	Pro	Arg	Ser	Gly	Asn	Pro	Gly
		370				375					380				

Tyr Ile Val Gly Lys Pro Leu Leu Ala Leu Thr Asp Asp Ile Ser Tyr  
 385 390 395 400  
 Ser Met Thr Leu Leu Gln Ser Gln Gly Asn Gly Ser Cys Ser Val Lys  
 405 410 415  
 Arg His Glu Val Gln Phe Gly Val Asn Ala Ile Ser Gly Cys Lys Leu  
 420 425 430  
 Arg Leu Lys Lys Ala Asp Cys Ser His Leu Gln Gln Glu Ile Tyr Gln  
 435 440 445  
 Thr Leu His Gly Arg Pro Arg Pro Glu Tyr Val Ala Ile Phe Gly Asn  
 450 455 460  
 Ala Asp Pro Ala Gln Lys Gly Gly Trp Thr Arg Ile Leu Asn Arg His  
 465 470 475 480  
 Cys Ser Ile Ser Ala Ile Asn Cys Thr Ser Cys Cys Leu Ile Pro Val  
 485 490 495  
 Ser Leu Glu Ile Gln Val Leu Trp Ala Tyr Val Gly Leu Leu Ser Asn  
 500 505 510  
 Pro Gln Ala His Val Ser Gly Val Arg Phe Leu Tyr Gln Cys Gln Ser  
 515 520 525  
 Ile Gln Asp Ser Gln Gln Val Thr Glu Val Ser Leu Thr Thr Leu Val  
 530 535 540  
 Asn Phe Val Asp Ile Thr Gln Lys Pro Gln Pro Pro Arg Gly Gln Pro  
 545 550 555 560  
 Lys Met Asp Trp Lys Trp Pro Phe Asp Phe Phe Pro Phe Lys Val Ala  
 565 570 575  
 Phe Ser Arg Gly Val Phe Ser Gln Lys Cys Ser Val Ser Pro Ile Leu  
 580 585 590  
 Ile Leu Cys Leu Leu Leu Leu Gly Val Leu Asn Leu Glu Thr Met  
 595 600 605

&lt;210&gt; 645

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 645

Met Ala Ala Pro Arg Gly Arg Ala Ala Pro Trp Thr Thr Ala Leu Leu  
 1 5 10 15

Leu Leu Leu Ala Ser Gln Val Leu Ser Pro Gly Ser Cys Ala Asp Glu  
 20 25 30

Glu Glu Val Pro Glu Glu Trp Val Leu Leu His Val Val Gln Gly Gln  
 35 40 45

Ile Gly Ala Gly Asn Tyr Ser Tyr Leu Arg Leu Asn His Glu Gly Lys

50                      55                      60  
 Ile Val Leu Arg Met Arg Ser Leu Lys Gly Asp Ala Asp Leu Tyr Val  
 65                      70                      75                      80  
 Ser Ala Ser Ser Leu His Pro Ser Phe Asp Asp Tyr Glu Leu Gln Ser  
 85                      90                      95  
 Ala Thr Cys Gly Pro Asp Ala Val Ser Ile Pro Ala His Phe Arg Arg  
 100                      105                      110  
 Pro Val Gly Ile Gly Val Tyr Gly His Pro Ser His Leu Glu Ser Glu  
 115                      120                      125  
 Phe Glu Met Lys Val Tyr Tyr Asp Gly Thr Val Glu Gln His Pro Phe  
 130                      135                      140  
 Gly Glu Ala Ala Tyr Pro Ala Asp Gly Ala Asp Ala Gly Gln Lys His  
 145                      150                      155                      160  
 Ala Gly Ala Pro Glu Asp Ala Ser Gln Glu Glu Glu Ser Val Leu Trp  
 165                      170                      175  
 Thr Ile Leu Ile Ser Ile Leu Lys Leu Glu Leu Glu Ile Leu Phe  
 180                      185                      190

<210> 646  
 <211> 421  
 <212> PRT  
 <213> Homo sapiens

<400> 646  
 Met Thr Val Phe Phe Lys Thr Leu Arg Asn His Trp Lys Lys Thr Thr  
 1                      5                      10                      15  
 Ala Gly Leu Cys Leu Leu Thr Trp Gly Gly His Trp Leu Tyr Gly Lys  
 20                      25                      30  
 His Cys Asp Asn Leu Leu Arg Arg Ala Ala Cys Gln Glu Ala Gln Val  
 35                      40                      45  
 Phe Gly Asn Gln Leu Ile Pro Pro Asn Ala Gln Val Lys Lys Ala Thr  
 50                      55                      60  
 Val Phe Ser Ile Leu Gln Leu Ala Lys Glu Lys Pro Gly Leu Tyr Leu  
 65                      70                      75                      80  
 Lys Lys Met Leu Pro Asp Phe Thr Phe Ile Trp His Gly Cys Asp Tyr  
 85                      90                      95  
 Cys Lys Thr Asp Tyr Glu Gly Gln Ala Lys Lys Leu Leu Glu Leu Met  
 100                      105                      110  
 Glu Asn Thr Asp Val Ile Ile Val Ala Gly Gly Asp Gly Thr Leu Gln  
 115                      120                      125  
 Glu Val Val Thr Gly Val Leu Arg Arg Thr Asp Glu Ala Thr Phe Ser  
 130                      135                      140

Lys Ile Pro Ile Gly Phe Ile Pro Leu Gly Glu Thr Ser Ser Leu Ser  
 145 150 155 160  
 His Thr Leu Phe Ala Glu Ser Gly Asn Lys Val Gln His Ile Thr Asp  
 165 170 175  
 Ala Thr Leu Ala Ile Val Lys Gly Glu Thr Val Pro Leu Asp Val Leu  
 180 185 190  
 Gln Ile Lys Gly Glu Lys Glu Gln Pro Val Phe Ala Met Thr Gly Leu  
 195 200 205  
 Arg Trp Gly Ser Phe Arg Asp Ala Gly Val Lys Val Ser Lys Tyr Trp  
 210 215 220  
 Tyr Leu Gly Pro Leu Lys Ile Lys Ala Ala His Phe Phe Ser Thr Leu  
 225 230 235 240  
 Lys Glu Trp Pro Gln Thr His Gln Ala Ser Ile Ser Tyr Thr Gly Pro  
 245 250 255  
 Thr Glu Arg Pro Pro Asn Glu Pro Glu Glu Thr Pro Val Gln Arg Pro  
 260 265 270  
 Ser Leu Tyr Arg Arg Ile Leu Arg Arg Leu Ala Ser Tyr Trp Ala Gln  
 275 280 285  
 Pro Gln Asp Ala Leu Ser Gln Glu Val Ser Pro Glu Val Trp Lys Asp  
 290 295 300  
 Val Gln Leu Ser Thr Ile Glu Leu Ser Ile Thr Thr Arg Asn Asn Gln  
 305 310 315 320  
 Leu Asp Pro Thr Ser Lys Glu Asp Phe Leu Asn Ile Cys Ile Glu Pro  
 325 330 335  
 Asp Thr Ile Ser Lys Gly Asp Phe Ile Thr Ile Gly Ser Arg Lys Val  
 340 345 350  
 Arg Asn Pro Lys Leu His Val Glu Gly Thr Glu Cys Leu Gln Ala Ser  
 355 360 365  
 Gln Cys Thr Leu Leu Ile Pro Glu Gly Ala Gly Gly Ser Phe Ser Ile  
 370 375 380  
 Asp Ser Glu Glu Tyr Glu Ala Met Pro Val Glu Val Lys Leu Leu Pro  
 385 390 395 400  
 Arg Lys Leu Gln Phe Phe Cys Asp Pro Arg Lys Arg Glu Gln Met Leu  
 405 410 415  
 Thr Ser Pro Thr Gln  
 420

&lt;210&gt; 647

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 647

Met Asn Tyr Ser Arg Ser Pro Trp Ala Ala Val Met Glu Pro Leu Thr  
 1 5 10 15  
 Leu Leu Phe Leu His Leu Ser Cys Leu Leu Ser Leu Cys Glu Ala Val  
 20 25 30  
 Gly Trp Asp Ser Glu Cys Leu Val Cys Ser Leu Gly Glu Glu Glu Phe  
 35 40 45  
 Leu Arg Met Gln Ala Leu Leu Cys Gly Cys Arg Leu His Leu Gly Gly  
 50 55 60  
 Val Leu Tyr Val Cys Thr Leu Gly Thr Ala Cys Ile Trp Lys Ile  
 65 70 75

&lt;210&gt; 648

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 648

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys  
 1 5 10 15  
 Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys  
 20 25 30  
 Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val  
 35 40 45  
 Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala  
 50 55 60  
 Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile  
 65 70 75 80  
 Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser  
 85 90 95  
 Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala  
 100 105 110  
 Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr  
 115 120 125  
 Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu  
 130 135 140  
 Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly  
 145 150 155 160  
 Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala  
 165 170 175  
 Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu  
 180 185 190  
 Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala

195 200 205

Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu  
 210 215 220

Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr  
 225 230 235 240

Asp Gly

<210> 649  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 649

Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met  
 1 5 10 15

Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu  
 20 25 30

Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala  
 35 40 45

Val Trp Asp Leu  
 50

<210> 650  
 <211> 189  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any amino acid

<400> 650

Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Met  
 1 5 10 15

Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg  
 20 25 30

Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr  
 35 40 45

Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln  
 50 55 60

Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys  
 65 70 75 80

Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Xaa His Leu  
 85 90 95

Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg  
 100 105 110

Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe  
 115 120 125

Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly  
 130 135 140

Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe  
 145 150 155 160

Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg  
 165 170 175

Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu  
 180 185

<210> 651

<211> 264

<212> PRT

<213> Homo sapiens

<400> 651

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala  
 1 5 10 15

Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg  
 20 25 30

Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly  
 35 40 45

Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr  
 50 55 60

Asp Val Ser Ser Gly Arg Arg His Tyr Glu Pro Gly Ser His Tyr Ser  
 65 70 75 80

Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys  
 85 90 95

Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu  
 100 105 110

Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val  
 115 120 125

Cys Val Gly Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro  
 130 135 140

Thr Pro Ala Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu  
 145 150 155 160

Ala Asn Lys Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn  
 165 170 175

Ala Glu Trp Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys

180 185 190  
 Ser Gly Gly Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr  
 195 200 205  
 Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly  
 210 215 220  
 Pro Pro Ser Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly  
 225 230 235 240  
 Asp Leu Asp His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu  
 245 250 255  
 Ala Ile Thr Cys Ser Phe Pro Leu  
 260

<210> 652  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 652  
 Met Leu Gly Thr Ser Leu Ile Tyr Trp Thr Leu Phe Thr Leu Gly Leu  
 1 5 10 15  
 Asp Leu Ser Trp Ser Ile Ser Leu Ala Phe Lys Trp Cys Glu Arg Pro  
 20 25 30  
 Glu Trp Ile His Val Asp Ser Arg Pro Phe Ala Ser Leu Ser Arg Asp  
 35 40 45  
 Ser Gly Ala Ala Leu Gly Leu Gly Ile Ala Leu His Ser Pro Cys Tyr  
 50 55 60  
 Ala Gln Val Arg Arg Ala Gln Leu Gly Asn Gly Gln Lys Ile Ala Cys  
 65 70 75 80  
 Leu Val Leu Ala Met Gly Leu Leu Gly Pro Leu Asp Trp Leu Gly His  
 85 90 95  
 Pro Pro Gln Ile Ser Leu Phe Tyr Ile Phe Asn Phe Leu Lys Tyr Thr  
 100 105 110  
 Leu Trp Pro Cys Leu Val Leu Ala Leu Val Pro Trp Ala Val His Met  
 115 120 125  
 Phe Ser Ala Gln Glu Ala Pro Pro Ile His Ser Ser  
 130 135 140

<210> 653  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<400> 653



Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val  
 1 5 10 15  
 His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu  
 20 25 30  
 Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu  
 35 40 45  
 Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu  
 50 55 60  
 Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser  
 65 70 75 80  
 Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg  
 85 90 95  
 Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr  
 100 105 110  
 Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln  
 115 120 125  
 Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu  
 130 135 140  
 Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu  
 145 150 155 160  
 Glu Glu Phe Glu Asp Ile Val Gly Asp Trp Tyr Phe His His Gln Glu  
 165 170 175  
 Gln Pro Leu Gln Asn Phe Leu Cys Glu Gly His Val Leu Pro Ala Ala  
 180 185 190  
 Glu Thr Ala Cys Leu Gln Glu Thr Trp Thr Gly Lys Glu Ile Thr Asp  
 195 200 205  
 Gly Glu Glu Lys Thr Glu Gly Glu Glu Glu Gln Glu Glu Glu Glu  
 210 215 220  
 Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr Lys Thr Gly Ser His  
 225 230 235 240  
 Pro Lys Leu Asp Arg Glu Asp Leu  
 245

<210> 654  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 654  
 Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala  
 1 5 10 15  
 Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr  
 20 25 30

Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser  
           35                          40                          45  
 Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys  
           50                          55                          60

<210> 655  
 <211> 385  
 <212> PRT  
 <213> Homo sapiens

<400> 655  
 Met Ser Phe Ile Met Lys Leu His Arg His Phe Gln Arg Thr Val Ile  
   1                          5                          10                          15  
 Leu Leu Ala Thr Phe Cys Met Val Ser Ile Ile Ile Ser Ala Tyr Tyr  
                           20                          25                          30  
 Leu Tyr Ser Gly Tyr Lys Gln Glu Asn Glu Leu Ser Glu Thr Ala Ser  
           35                          40                          45  
 Glu Val Asp Cys Gly Asp Leu Gln His Leu Pro Tyr Gln Leu Met Glu  
           50                          55                          60  
 Val Lys Ala Met Lys Leu Phe Asp Ala Ser Arg Thr Asp Pro Thr Val  
           65                          70                          75                          80  
 Leu Val Phe Val Glu Ser Gln Tyr Ser Ser Leu Gly Gln Asp Ile Ile  
                           85                          90                          95  
 Met Ile Leu Glu Ser Ser Arg Phe Gln Tyr His Ile Glu Ile Ala Pro  
           100                          105                          110  
 Gly Lys Gly Asp Leu Pro Val Leu Ile Asp Lys Met Lys Gly Lys Tyr  
           115                          120                          125  
 Ile Leu Ile Ile Tyr Glu Asn Ile Leu Lys Tyr Ile Asn Met Asp Ser  
           130                          135                          140  
 Trp Asn Arg Ser Leu Leu Asp Lys Tyr Cys Val Glu Tyr Gly Val Gly  
   145                          150                          155                          160  
 Val Ile Gly Phe His Lys Thr Ser Glu Lys Ser Val Gln Ser Phe Gln  
                           165                          170                          175  
 Leu Lys Gly Phe Pro Phe Ser Ile Tyr Gly Asn Leu Ala Val Lys Asp  
           180                          185                          190  
 Cys Cys Ile Asn Pro His Ser Pro Leu Ile Arg Val Thr Lys Ser Ser  
           195                          200                          205  
 Lys Leu Glu Lys Gly Ser Leu Pro Gly Thr Asp Trp Thr Val Phe Gln  
           210                          215                          220  
 Ile Asn His Ser Ala Tyr Gln Pro Val Ile Phe Ala Lys Val Lys Thr

225                      230                      235                      240  
 Pro Glu Asn Leu Ser Pro Ser Ile Ser Lys Gly Ala Phe Tyr Ala Thr  
                                  245                      250                      255  
 Ile Ile His Asp Leu Gly Leu His Asp Gly Ile Gln Arg Val Leu Phe  
                                  260                      265                      270  
 Gly Asn Asn Leu Asn Phe Trp Leu His Lys Leu Ile Phe Ile Asp Ala  
                                  275                      280                      285  
 Ile Ser Phe Leu Ser Gly Lys Arg Leu Thr Leu Ser Leu Asp Arg Tyr  
                                  290                      295                      300  
 Ile Leu Val Asp Ile Asp Asp Ile Phe Val Gly Lys Glu Gly Thr Arg  
 305                                   310                      315                      320  
 Met Asn Thr Asn Asp Val Lys Val Arg Leu Tyr Phe Leu Lys Phe Gln  
                                  325                      330                      335  
 Ser Ser Val His Leu Pro Ala Gly Ile Gln Leu Ser Gln Phe Val Leu  
                                  340                      345                      350  
 Gln Leu Gly Tyr Pro Gly His Gly Ile Tyr Trp Glu Ser Leu Gly Asn  
                                  355                      360                      365  
 Leu Gly Leu Ser Leu Thr Leu Asn Gln Leu Arg Arg Leu Cys Ile Ser  
                                  370                      375                      380  
 Ile  
 385

<210> 656  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 656  
 Met Leu Val Phe Leu Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu  
   1                                    5                      10                      15  
 Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu  
                                  20                      25                      30  
 Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys  
                                  35                      40                      45  
 Ser Cys Thr Ile Lys  
                                  50

<210> 657  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 657  
 Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys

1                      5                      10                      15  
Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe  
                        20                      25                      30  
Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe  
                        35                      40                      45  
Met

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<210> 658
<211> 110
<212> PRT
<213> Homo sapiens
```

```

<400> 658
Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu
  1             5             10             15
Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn
          20             25             30
Leu Leu Ala Leu Pro Ala Ser Pro Cys Ala Val Thr Ala Leu Val Ala
          35             40             45
Arg His Arg Arg Ala Gly Leu Gln Arg Ser Ile Gln Cys Leu Leu Gly
          50             55             60
Arg Gln Gly Gly Gly Gly Cys Asn Cys Glu Leu Thr Lys Pro Gln Val
          65             70             75             80
Gly Ser Lys Trp Val Gly His Arg Lys Lys Ser Asp Leu Gln Ser Gly
          85             90             95
Asp Leu Gly Ser Gly Leu Cys Leu Met Thr Gly Ser Val Met
          100             105             110

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<210> 659
<211> 258
<212> PRT
<213> Homo sapiens
```

```

<400> 659
Met Tyr Ile Trp Phe Ile Ile Phe Phe Ile Gln Pro His Lys Glu Glu
  1             5             10             15

Arg Phe Leu Phe Pro Val Tyr Pro Leu Ile Cys Leu Cys Gly Ala Val
      20             25             30

Ala Leu Ser Ala Leu Gln Lys Cys Tyr His Phe Val Phe Gln Arg Tyr
      35             40             45

Arg Leu Glu His Tyr Thr Val Thr Ser Asn Trp Leu Ala Leu Gly Thr
      50             55             60

Val Phe Leu Phe Gly Leu Leu Ser Phe Ser Arg Ser Val Ala Leu Phe

```

[illegible]

```
<210> 660
<211> 59
<212> PRT
<213> Homo sapiens
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<400> 660
Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser
  1              5              10              15

Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln
      20              25              30

Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser
      35              40              45

Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys
  50              55

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<210> 661

&lt;211&gt; 202

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 661

```

Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr
 1              5              10              15

Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp
          20              25              30

Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro
          35              40              45

Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly
          50              55              60

Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile
          65              70              75              80

Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe
          85              90              95

Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro
          100              105              110

Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala
          115              120              125

Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys
          130              135              140

Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr
          145              150              155              160

Ala Ile Leu Lys Leu Ala Phe Pro Pro Gln Phe Ile Gly Ser Met Tyr
          165              170              175

Met Phe Pro Leu Leu Tyr Ala Leu Phe Gln Ser Ala Glu Ala Gly Ile
          180              185              190

Phe Val Leu Ile Tyr Lys Met Tyr Gly Arg
          195              200

```

&lt;210&gt; 662

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 662

```

Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1              5              10              15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
          20              25              30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
          35              40              45

```

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe  
 50 55 60  
 Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser  
 65 70 75 80

<210> 663  
 <211> 240  
 <212> PRT  
 <213> Homo sapiens

<400> 663  
 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His  
 1 5 10 15  
 His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu  
 20 25 30  
 Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu  
 35 40 45  
 Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe  
 50 55 60  
 Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr Val Thr Gly Lys Trp  
 65 70 75 80  
 Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp  
 85 90 95  
 Gly Pro Asp Arg Asn Lys Thr Arg Thr Phe Gln Ala Thr Val Leu Gly  
 100 105 110  
 Ser Gln Met Gly Leu Lys Gly Ser Ser Ala Gly Gln Leu Val Leu Ile  
 115 120 125  
 Thr Ala Arg Val Thr Thr Glu Arg Thr Ala Gly Thr Cys Leu Tyr Phe  
 130 135 140  
 Ser Ala Val Pro Gly Ile Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys  
 145 150 155 160  
 Ser Glu Glu Gly Ala Gly Asn Ala Thr Leu Ser Pro Arg Met Gly Glu  
 165 170 175  
 Glu Cys Val Ser Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu  
 180 185 190  
 Leu Thr Ser Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu  
 195 200 205  
 Gly Ser Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala  
 210 215 220  
 Met Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu  
 225 230 235 240

<210> 664  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 664  
 Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn  
     1                    5                    10                    15  
 Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln  
                     20                    25                    30  
 Ser Tyr Ile Val Asn Gly Ser  
                     35

<210> 665  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 665  
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly  
     1                    5                    10                    15  
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile  
                     20                    25                    30  
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp  
                     35                    40                    45  
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Ser  
                     50                    55                    60  
 Arg Asp Ala Ser Ser Gly Glu Glu Glu Glu Gly Lys Glu Lys Lys Thr  
                     65                    70                    75                    80  
 Phe Pro Ile Ser Gly Ala Arg Gly Gly Ala Arg Gly Thr Arg Tyr Arg  
                     85                    90                    95  
 Tyr Val Ser Gln Ala Gln Pro Arg Gly Lys Pro Arg Gln Asp Thr Ala  
                     100                    105                    110  
 Lys Ser Pro His Arg Thr Lys Phe Thr Leu Ser Leu Asp Val Pro Thr  
                     115                    120                    125  
 Asn Ile Met Asn Leu Leu Phe Asn Ile Ala Lys Ala Lys Asn Leu Arg  
                     130                    135                    140  
 Ala Gln  
 145



<210> 666  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<400> 666  
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
     1                    5                    10                    15  
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
             20                    25                    30  
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
             35                    40                    45  
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
             50                    55                    60  
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys  
     65                    70                    75                    80  
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys  
             85                    90                    95  
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His  
             100                    105                    110  
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro  
             115                    120                    125  
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly  
             130                    135                    140  
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu  
     145                    150                    155                    160  
 His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile  
             165                    170

<210> 667  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<400> 667  
 Met Arg Arg Leu Leu Leu Ala Leu Pro Phe Ala Leu Leu Pro Leu Ala  
     1                    5                    10                    15  
 Val Ala His Ala His Glu Asp His Asp His Glu His Gly Ser Leu Gly  
             20                    25                    30  
 Ala His Glu His Gly Val Gly Arg Leu Asn Ala Val Leu Asp Gly Gln  
             35                    40                    45  
 Ala Leu Glu Leu Glu Leu Asp Ser Pro Ala Met Asn Leu Val Gly Phe  
             50                    55                    60  
 Glu His Val Ala Thr Ser Ala Ala Asp Lys Ala Lys Val Ala Ala Val  
     65                    70                    75                    80

Arg Lys Gln Leu Glu Asn Pro Ser Ala Leu Phe Asn Leu Pro Lys Ala  
                     85                    90                    95  
 Ala Gly Cys Val Val Ser Ser Gln Glu Leu Asn Ser Pro Leu Phe Gly  
                     100                    105                    110  
 Asp Lys Pro Glu Ala Glu His Asp Asp Asp Asp His Ala Ser Asp Gly  
                     115                    120                    125  
 Lys Gly Ala Ala Ala His Lys His Asp His Asp His Ser Glu Ile His  
                     130                    135                    140  
 Ala His Tyr Gln Phe Thr Cys Ala Thr Pro Thr Ala Leu Gly Asn Leu  
                     145                    150                    155                    160  
 Asp Leu Ser Gln Val Phe Lys Thr Phe Pro Ala Thr Gln Lys Ile Gln  
                     165                    170                    175  
 Val Gln Leu Ile Gly Pro Ser Gly Gln Gln Gly Val Asp Ala Thr Ala  
                     180                    185                    190  
 Thr Ala Ala Thr Leu Lys Phe  
                     195

&lt;210&gt; 668

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 668

Met Trp Val Phe Phe Leu Pro Phe Phe Ser Ile Leu Phe Lys Ile Cys  
   1                    5                    10                    15  
 Trp Cys Ile Ser Leu Ser Gln Thr Lys Glu Lys Gln Ser Ser Asn Leu  
                     20                    25                    30  
 Met Phe Tyr Phe Phe Cys Ile Cys Thr Tyr Glu Arg Arg Arg Lys Lys  
                     35                    40                    45  
 Glu Met Arg Arg Gly Glu Lys Lys Arg Ser Phe Cys Leu Ile Gly Leu  
                     50                    55                    60  
 Xaa Gln His Met Ile Ala Val Gln Ala Trp Phe His Glu Gln His Gln  
   65                    70                    75                    80  
 Ile Gln Ile Ser

&lt;210&gt; 669

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
 1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
 35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
 65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
 85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
 100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
 115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
 130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
 145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
 165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
 180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
 195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
 210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
 225 230 235 240

Ile Phe Pro Ser Ala  
 245

&lt;210&gt; 670

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

Met Gly Gln Cys Pro Gly Ser Arg Val Leu Pro Gln Leu Met Gln Leu  
 1 5 10 15

Trp Leu Leu Leu Cys Ala Gln Ile Met Cys Leu Glu Ala Phe Leu Gln  
                   20                  25                  30  
 Gln Gly Ser Val Arg Lys Trp Lys Ser Gly Val Ser Ser Phe Pro Gly  
                   35                  40                  45  
 Glu Ser Leu Ala Glu Gln Leu Thr Leu Ser Lys His Cys Arg Trp Pro  
                   50                  55                  60  
 Leu Phe Leu Pro Gly Ser Ser Ser Trp Glu Leu Ser Ala Pro Gly Lys  
                   65                  70                  75                  80  
 Phe Trp Gln

<210> 671  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 671  
 Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met  
   1                  5                  10                  15  
 Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu  
                   20                  25                  30  
 Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala  
                   35                  40                  45  
 Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe  
                   50                  55                  60

<210> 672  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 672  
 Met Ala Val Ser Val Ile Phe Cys Gln Lys Leu Lys Thr Gly Ser Val  
   1                  5                  10                  15  
 Lys Leu Trp Ile Gln Met Leu Leu Trp Leu Gln Phe Ser Val Ala Cys  
                   20                  25                  30  
 Leu Arg Leu Arg Lys Gly Gly Lys Trp Ser Pro Trp Gly Leu Met Leu  
                   35                  40                  45  
 Lys Glu Val Ile Trp Lys Asp Cys Arg  
                   50                  55

<210> 673  
 <211> 83  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 673

Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser  
 1 5 10 15

Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser  
 20 25 30

Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro  
 35 40 45

Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro  
 50 55 60

Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr  
 65 70 75 80

His Ile Arg

&lt;210&gt; 674

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 674

Met Phe Lys Arg Met Cys Phe Phe Phe Gln Val Phe Leu Pro Leu Ala  
 1 5 10 15

Cys Thr Glu Leu Leu Trp Lys Gly Ala Pro Cys Arg His Ile Phe Gln  
 20 25 30

Thr Gly Pro Asp Leu Leu Val Thr Gln Arg Cys Val His Ser Leu Leu  
 35 40 45

Leu Gly Tyr Leu Ile Ser Ile Phe  
 50 55

&lt;210&gt; 675

&lt;211&gt; 319

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 675

Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr  
 1 5 10 15

Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly  
 20 25 30

Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly  
 35 40 45

Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe  
 50 55 60

Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu  
 65 70 75 80  
 Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu  
 85 90 95  
 Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly  
 100 105 110  
 Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala  
 115 120 125  
 Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser  
 130 135 140  
 Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser  
 145 150 155 160  
 Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu  
 165 170 175  
 Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu  
 180 185 190  
 Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg  
 195 200 205  
 Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu  
 210 215 220  
 Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met  
 225 230 235 240  
 Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu  
 245 250 255  
 Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp  
 260 265 270  
 Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln Val Ser  
 275 280 285  
 Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg Gln Leu  
 290 295 300  
 Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala Gln  
 305 310 315

&lt;210&gt; 676

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 676

Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val  
 1 5 10 15

Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu  
 20 25 30

Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His  
           35                                  40                                  45  
 His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly  
           50                                  55                                  60  
 Gly Asp Glu Pro Leu Ala Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu  
           65                                  70                                  75                                  80  
 Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu  
                                   85                                  90                                  95  
 Ala Ile Thr Asp Ser Glu Leu Ser Asp Glu Glu Ala Ser Ile Leu Glu  
                                   100                                  105                                  110  
 Ser Gly Gly Phe Ser Val Ser Arg Ala Thr Thr Pro Gln Leu Thr Asp  
           115                                  120                                  125  
 Val Ser Glu Asp Leu Asp Gln Gln Ser Leu Pro Ser Glu Pro Glu Glu  
           130                                  135                                  140  
 Thr Leu Ser Arg Asp Leu Gly Glu Gly Glu Glu Gly Glu Leu Ala Pro  
           145                                  150                                  155                                  160  
 Pro Glu Asp Leu Leu Gly Arg Pro Gln Ala Leu Ser Arg Gln Ala Leu  
                                   165                                  170                                  175  
 Asp Ser Glu Glu Glu Glu Asp Val Ala Ala Lys Glu Thr Leu Leu  
           180                                  185                                  190  
 Arg Leu Ser Ser Pro Leu His Phe Val Asn Thr His Phe Asn Gly Ala  
           195                                  200                                  205  
 Gly Ser Pro Gln Asp Gly Val Lys Cys Ser Pro Gly Gly Pro Val Glu  
           210                                  215                                  220  
 Thr Leu Ser Pro Glu Thr Val Ser Gly Gly Leu Thr Ala Leu Pro Gly  
           225                                  230                                  235                                  240  
 Thr Leu Ser Pro Pro Leu Cys Leu Val Gly Ser Asp Pro Ala Pro Ser  
                                   245                                  250                                  255  
 Pro Ser Ile Leu Pro Pro Val Pro Gln Asp Ser Pro Gln Pro Leu Pro  
           260                                  265                                  270  
 Ala Pro Glu Glu Glu Glu Ala Leu Thr Thr Glu Asp Phe Glu Leu Leu  
           275                                  280                                  285  
 Asp Gln Gly Glu Leu Glu Gln Leu Asn Ala Glu Leu Gly Leu Glu Pro  
           290                                  295                                  300  
 Glu Thr Pro Pro Lys Pro Pro Asp Ala Pro Pro Leu Gly Pro Asp Ile  
           305                                  310                                  315                                  320  
 His Ser Leu Val Gln Ser Asp Gln Glu Ala Gln Ala Val Ala Glu Pro  
                                   325                                  330                                  335

&lt;210&gt; 677

&lt;211&gt; 272

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 677

Met Trp Gly Asn Lys Phe Gly Val Leu Leu Phe Leu Tyr Ser Val Leu  
 1 5 10 15

Leu Thr Lys Gly Ile Glu Asn Ile Lys Asn Glu Ile Glu Asp Ala Ser  
 20 25 30

Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser Gln Ser Leu Ile  
 35 40 45

Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val Trp Asp Gly Asp  
 50 55 60

Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His Glu Gln Ala Ala  
 65 70 75 80

Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr Cys Lys Val Gly  
 85 90 95

Ser Tyr Leu Lys Ser Pro Lys Phe Pro Ile Trp Ile Val Gly Ser Glu  
 100 105 110

Thr His Leu Thr Val Phe Phe Ala Lys Asp Met Ala Leu Val Ala Pro  
 115 120 125

Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro  
 130 135 140

Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu Glu Asp Val Met Lys  
 145 150 155 160

Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn  
 165 170 175

Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu Leu Gly Pro Phe Leu  
 180 185 190

Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly Pro Glu Ser Phe Thr  
 195 200 205

Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn Tyr Asn Glu Lys Val  
 210 215 220

Met Tyr Val Glu Gly Thr Ala Val Val Met Gly Phe Glu Asp Pro Met  
 225 230 235 240

Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys Leu Gln Thr Lys Trp  
 245 250 255

Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg Ser Pro Ser Leu Asn  
 260 265 270



<210> 678  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 678  
 Met Val Ser Arg Ser Thr Ser Leu Thr Leu Ile Val Phe Leu Phe His  
           1                  5                  10                  15  
 Arg Leu Ser Lys Ala Pro Gly Lys Met Val Glu Asn Ser Pro Ser Pro  
                   20                  25                  30  
 Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln  
           35                  40                  45  
 Phe Gly Phe Lys Asn Leu Lys Gly Ser Arg Val Cys  
           50                  55                  60

<210> 679  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<400> 679  
 Met Gly Ile Phe Pro Gly Ile Ile Leu Ile Phe Leu Arg Val Lys Phe  
           1                  5                  10                  15  
 Ala Thr Ala Ala Val Ile Val Ser Gly His Gln Lys Ser Thr Thr Val  
                   20                  25                  30  
 Ser His Glu Met Ser Gly Leu Asn Trp Lys Pro Phe Val Tyr Gly Gly  
           35                  40                  45  
 Leu Ala Ser Ile Val Ala Glu Phe Gly Thr Phe Pro Val Asp Leu Thr  
           50                  55                  60  
 Lys Thr Arg Leu Gln Val Gln Gly Gln Ser Ile Asp Ala Arg Phe Lys  
           65                  70                  75                  80  
 Glu Ile Lys Tyr Arg Gly Met Phe His Ala Leu Phe Arg Ile Cys Lys  
                   85                  90                  95  
 Glu Glu Gly Val Leu Ala Leu Tyr Ser Gly Ile Ala Pro Ala Leu Leu  
           100                  105                  110  
 Arg Gln Ala Ser Tyr Gly Thr Ile Lys Ile Gly Ile Tyr Gln Ser Leu  
           115                  120                  125  
 Lys Arg Leu Phe Val Glu Arg Leu Glu Asp Glu Thr Leu Leu Ile Asn  
           130                  135                  140  
 Met Ile Cys Gly Val Val Ser Gly Val Ile Ser Ser Thr Ile Ala Asn  
           145                  150                  155                  160  
 Pro Thr Asp Val Leu Lys Ile Arg Met Gln Ala Gln Gly Ser Leu Phe  
                   165                  170                  175

Gln Gly Ser Met Ile Gly Ser Phe Ile Asp Ile Tyr Gln Gln Glu Gly  
                   180                  185                  190

Thr Arg Gly Leu Trp Arg Val Ser Thr Leu Phe Leu Leu Leu Ser Tyr  
                   195                  200                  205

Thr Leu Ser Ser Tyr Asn Leu Gln Arg Ile Phe Phe Tyr Ile Lys Thr  
                   210                  215                  220

<210> 680  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 680  
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
       1                  5                  10                  15

Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr  
                   20                  25                  30

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
                   35                  40                  45

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
                   50                  55                  60

Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp  
                   65                  70                  75                  80

Arg Ala Val Val Val Gln Met Ala Gln  
                   85

<210> 681  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 681  
 Met Phe Ser Ser Lys Ser Leu Leu Val Leu Pro Phe Cys Phe Arg Ser  
       1                  5                  10                  15

Ala Ala His Leu Glu Leu Ser Val Trp Cys Val Cys Gly Val Arg  
                   20                  25                  30

<210> 682  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 682

Met Pro Gly Val Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu  
 1 5 10 15  
 Ala Thr His Glu Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu  
 20 25 30  
 Ile Ala Glu Gly Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu  
 35 40 45  
 Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu  
 50 55 60  
 Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp  
 65 70 75 80  
 His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln  
 85 90 95  
 Ile Leu Pro Tyr His His Gln Gly Ser Cys  
 100 105

<210> 683  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any amino acid

<400> 683  
 Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys  
 1 5 10 15  
 Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu  
 20 25 30  
 Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser  
 35 40 45  
 Leu Cys Val  
 50

<210> 684  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 684  
 Met Leu His Leu Ala Ala Met Trp Trp Ala Cys Val Thr Thr Leu Val  
 1 5 10 15  
 Phe Thr Leu Val Ser Lys Leu Phe Ile Pro Leu Lys Ser Ser Met Asp  
 20 25 30  
 Gly Glu Met Ser Leu Asp Pro His Ser Cys Val Leu Val Cys Ile Cys

35                      40                      45  
 Phe Pro Leu Arg Phe Val Phe Val Ser Cys Phe Glu Leu Tyr Leu Val  
     50                      55                      60  
 Gln Ser Ile Val Lys Leu Ser Gln Gln Leu  
     65                      70

<210> 685  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 685  
 Met Ala Ile Ile Ser Phe Glu Leu Leu Phe Leu Met Asn Leu Pro Thr  
     1                      5                      10                      15  
 Val Asn Ser Ser Asn Phe Lys Leu Ile Ile Pro Glu Asp Val Thr Leu  
                     20                      25                      30  
 Ser Phe Val Ser His Leu Asp Ile Thr Val Asn His Phe Val Phe Leu  
             35                      40                      45  
 Ser Thr Phe Glu Leu Ala Gly Val Ile Glu Gly Lys Pro Leu Pro Asp  
     50                      55                      60  
 Ser Lys Ser Asp Leu Cys Pro Ile Leu Gly Gln Leu Trp Phe His Ile  
     65                      70                      75                      80  
 Leu Leu Phe Phe Ile Phe Trp Val  
                     85

<210> 686  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 686  
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val  
     1                      5                      10                      15  
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp  
             20                      25                      30  
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly  
     35                      40                      45  
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys  
     50                      55                      60  
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly  
     65                      70                      75                      80  
 Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu  
             85                      90                      95  
 Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser

411

Val Tyr Leu Glu Asp Thr Asp  
210 215

<210> 688  
<211> 158  
<212> PRT  
<213> Homo sapiens

<400> 688  
Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu  
1 5 10 15  
Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr  
20 25 30  
Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met  
35 40 45  
Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile  
50 55 60  
Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln  
65 70 75 80  
Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala  
85 90 95  
Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly  
100 105 110  
Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu  
115 120 125  
Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile  
130 135 140  
Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro  
145 150 155

<210> 689  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 689  
Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile  
1 5 10 15  
Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu  
20 25 30  
Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala  
35 40 45

<210> 690  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any amino acid

<400> 690  
 Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu  
   1                  5                  10                  15  
 Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu  
                   20                  25                  30  
 Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys  
           35                  40                  45  
 Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly  
   50                  55                  60  
 His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu  
   65                  70                  75                  80  
 Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg  
                   85                  90                  95  
 Phe Val Leu Gln  
                   100

<210> 691  
 <211> 343  
 <212> PRT  
 <213> Homo sapiens

<400> 691  
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu  
   1                  5                  10                  15  
 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His  
           20                  25                  30

His Tyr Gly Pro Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro  
 35 40 45  
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
 50 55 60  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
 65 70 75 80  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
 85 90 95  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
 100 105 110  
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu  
 115 120 125  
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu  
 130 135 140  
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu  
 145 150 155 160  
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln  
 165 170 175  
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu  
 180 185 190  
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala  
 195 200 205  
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val  
 210 215 220  
 Gln Phe Ala Gly Thr Cys Thr Pro Leu Gln Val Gln Pro Met Ala Leu  
 225 230 235 240  
 Arg Ser Cys Leu Asn Asn Leu Ile Asp Asn Ala Leu Arg Tyr Ala Gly  
 245 250 255  
 Thr Ala Arg Val Glu Leu Ala Asp Ser Arg Gly Ala Leu Val Ile Arg  
 260 265 270  
 Val Ile Asp His Gly Pro Gly Ile Ala Ala Asp Lys Arg Glu Ala Val  
 275 280 285  
 Phe Glu Pro Phe Phe Arg Leu Glu Gly Ser Arg Asn Arg Asn Ser Gly  
 290 295 300  
 Gly Val Gly Leu Gly Met Thr Ile Ala Arg Glu Ala Val Glu Arg Leu  
 305 310 315 320  
 Gly Gly His Leu Ser Leu Glu Asp Thr Pro Gly Gly Gly Leu Thr Ala  
 325 330 335  
 Val Met Trp Leu Pro Arg Val  
 340



<210> 692  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 692  
 Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile  
 1 5 10 15  
 Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu  
 20 25 30  
 Lys Thr Val Thr His Ile Glu Gln  
 35 40

<210> 693  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 693  
 Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln  
 1 5 10 15  
 Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu  
 20 25 30  
 Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala  
 35 40 45  
 Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly  
 50 55 60  
 Leu  
 65

<210> 694  
 <211> 274  
 <212> PRT  
 <213> Homo sapiens

<400> 694  
 Met Phe Tyr Ile Ile Gly Gly Val Ala Thr Leu Leu Leu Ile Leu Val  
 1 5 10 15  
 Ile Ile Val Phe Lys Glu Lys Pro Lys Tyr Pro Pro Ser Arg Ala Gln  
 20 25 30  
 Ser Leu Ser Tyr Ala Leu Thr Ser Pro Asp Ala Ser Tyr Leu Gly Ser  
 35 40 45  
 Ile Ala Arg Leu Phe Lys Asn Leu Asn Phe Val Leu Leu Val Ile Thr  
 50 55 60  
 Tyr Gly Leu Asn Ala Gly Ala Phe Tyr Ala Leu Ser Thr Leu Leu Asn

65	70	75	80
Arg Met Val Ile Trp His Tyr Pro Gly Glu Glu Val Asn Ala Gly Arg	85	90	95
Ile Gly Leu Thr Ile Val Ile Ala Gly Met Leu Gly Ala Val Ile Ser	100	105	110
Gly Ile Trp Leu Asp Arg Ser Lys Thr Tyr Lys Glu Thr Thr Leu Val	115	120	125
Val Tyr Ile Met Thr Leu Val Gly Met Val Val Tyr Thr Phe Thr Leu	130	135	140
Asn Leu Gly His Leu Trp Val Val Phe Ile Thr Ala Gly Thr Met Gly	145	150	155
Phe Phe Met Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu	165	170	175
Leu Thr Tyr Pro Glu Ser Glu Gly Ile Ser Ser Gly Leu Leu Asn Ile	180	185	190
Ser Ala Gln Val Phe Gly Ile Ile Phe Thr Ile Ser Gln Gly Gln Ile	195	200	205
Ile Asp Asn Tyr Gly Thr Lys Pro Gly Asn Ile Phe Leu Cys Val Phe	210	215	220
Leu Thr Leu Gly Ala Ala Leu Thr Ala Phe Ile Lys Ala Asp Leu Arg	225	230	235
Arg Gln Lys Ala Asn Lys Glu Thr Leu Glu Asn Lys Leu Gln Glu Glu	245	250	255
Glu Glu Glu Ser Asn Thr Ser Lys Val Pro Thr Ala Val Ser Glu Asp	260	265	270
His Leu			

<210> 695  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any amino acid

<400> 695  
 Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile  
 1 5 10 15

Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu  
                   20                                  25                                  30

Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp  
                   35                                  40                                  45

Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr  
                   50                                  55                                  60

Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro  
                   65                                  70                                  75                                  80

Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser  
                                   85                                  90                                  95

Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser  
                   100                                  105

&lt;210&gt; 696

&lt;211&gt; 413

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 696

Met Arg Arg Gly Cys Ala Val Leu Gly Ala Leu Gly Leu Leu Ala Gly  
           1                                  5                                  10                                  15

Ala Gly Val Gly Ser Trp Leu Leu Val Leu Tyr Leu Cys Pro Ala Ala  
                   20                                  25                                  30

Ser Gln Pro Ile Ser Gly Thr Leu Gln Asp Glu Glu Ile Thr Leu Ser  
                   35                                  40                                  45

Cys Ser Glu Ala Ser Ala Glu Glu Ala Leu Leu Pro Ala Leu Pro Lys  
                   50                                  55                                  60

Thr Val Ser Phe Arg Ile Asn Ser Glu Asp Phe Leu Leu Glu Ala Gln  
                   65                                  70                                  75                                  80

Val Arg Asp Gln Pro Arg Trp Leu Leu Val Cys His Glu Gly Trp Ser  
                                   85                                  90                                  95

Pro Ala Leu Gly Leu Gln Ile Cys Trp Ser Leu Gly His Leu Arg Leu  
                   100                                  105                                  110

Thr His His Lys Gly Val Asn Leu Thr Asp Ile Lys Leu Asn Ser Ser  
                   115                                  120                                  125

Gln Glu Phe Ala Gln Leu Ser Pro Arg Leu Gly Gly Phe Leu Glu Glu  
                   130                                  135                                  140

Ala Trp Gln Pro Arg Asn Asn Cys Thr Ser Gly Gln Val Val Ser Leu  
                   145                                  150                                  155                                  160

Arg Cys Ser Glu Cys Gly Ala Arg Pro Leu Ala Ser Arg Ile Val Gly  
                                   165                                  170                                  175

Gly Gln Ser Val Ala Pro Gly Arg Trp Pro Trp Gln Ala Ser Val Ala

180                      185                      190  
 Leu Gly Phe Arg His Thr Cys Gly Gly Ser Val Leu Ala Pro Arg Trp  
           195                      200                      205  
 Val Val Thr Ala Ala His Cys Met His Ser Phe Arg Leu Ala Arg Leu  
           210                      215                      220  
 Ser Ser Trp Arg Val His Ala Gly Leu Val Ser His Ser Ala Val Arg  
 225                      230                      235                      240  
 Pro His Gln Gly Ala Leu Val Glu Arg Ile Ile Pro His Pro Leu Tyr  
                                  245                      250                      255  
 Ser Ala Gln Asn His Asp Tyr Asp Val Ala Leu Leu Arg Leu Gln Thr  
                                  260                      265                      270  
 Ala Leu Asn Phe Ser Asp Thr Val Gly Ala Val Cys Leu Pro Ala Lys  
                                  275                      280                      285  
 Glu Gln His Phe Pro Lys Gly Ser Arg Cys Trp Val Ser Gly Trp Gly  
                                  290                      295                      300  
 His Thr His Pro Ser His Thr Tyr Ser Ser Asp Met Leu Gln Asp Thr  
 305                      310                      315                      320  
 Val Val Pro Leu Phe Ser Thr Gln Leu Cys Asn Ser Ser Cys Val Tyr  
                                  325                      330                      335  
 Ser Gly Ala Leu Thr Pro Arg Met Leu Cys Ala Gly Tyr Leu Asp Gly  
                                  340                      345                      350  
 Arg Ala Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Pro  
                                  355                      360                      365  
 Asp Gly Asp Thr Trp Arg Leu Val Gly Val Val Ser Trp Gly Arg Gly  
                                  370                      375                      380  
 Cys Ala Glu Pro Asn His Pro Gly Val Tyr Ala Lys Val Ala Glu Phe  
 385                      390                      395                      400  
 Leu Asp Trp Ile His Asp Thr Ala Gln Asp Ser Leu Leu  
                                  405                      410

&lt;210&gt; 697

&lt;211&gt; 941

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 697

Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu  
   1                                      5                                      10                                      15  
 Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys  
                                  20                                      25                                      30  
 Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro  
                                  35                                      40                                      45

Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp  
 50 55 60  
 Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr  
 65 70 75 80  
 Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His  
 85 90 95  
 Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly  
 100 105 110  
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln  
 115 120 125  
 Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro  
 130 135 140  
 Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His  
 145 150 155 160  
 Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile  
 165 170 175  
 Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro  
 180 185 190  
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg  
 195 200 205  
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser  
 210 215 220  
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val  
 225 230 235 240  
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser  
 245 250 255  
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val  
 260 265 270  
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr  
 275 280 285  
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro  
 290 295 300  
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu  
 305 310 315 320  
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala  
 325 330 335  
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala  
 340 345 350  
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp  
 355 360 365  
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe

370	375	380
Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe 385	390	395 400
Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser 405	410	415
His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met 420	425	430
Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu 435	440	445
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr 450	455	460
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp 465	470	475 480
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly 485	490	495
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln 500	505	510
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg 515	520	525
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met 530	535	540
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly 545	550	555 560
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met 565	570	575
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro 580	585	590
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr 595	600	605
Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu 610	615	620
Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile 625	630	635 640
Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys 645	650	655
Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro 660	665	670
Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu 675	680	685
Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile 690	695	700

Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly  
 705 710 715 720  
 Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu Leu Ala Cys  
 725 730 735  
 Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg  
 740 745 750  
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr  
 755 760 765  
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe  
 770 775 780  
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln  
 785 790 795 800  
 Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys Leu Gln Trp  
 805 810 815  
 Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe  
 820 825 830  
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu  
 835 840 845  
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe  
 850 855 860  
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn  
 865 870 875 880  
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser  
 885 890 895  
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile  
 900 905 910  
 Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys  
 915 920 925  
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
 930 935 940

&lt;210&gt; 698

&lt;211&gt; 267

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

<223> Xaa equals any amino acid

<400> 698

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly  
1 5 10 15

Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe  
20 25 30

Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala  
35 40 45

Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp  
50 55 60

Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile  
65 70 75 80

Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr  
85 90 95

Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val  
100 105 110

Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile  
115 120 125

Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser  
130 135 140

Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys  
145 150 155 160

Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr  
165 170 175

Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro  
180 185 190

Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp  
195 200 205

Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr  
210 215 220

Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala  
225 230 235 240

His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu  
245 250 255

Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe  
260 265

<210> 699

<211> 53

<212> PRT

<213> Homo sapiens



&lt;400&gt; 699

Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His  
 1 5 10 15

Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser  
 20 25 30

His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp  
 35 40 45

Thr Phe Asn His Asp  
 50

&lt;210&gt; 700

&lt;211&gt; 578

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (326)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (342)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (444)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 700

Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu  
 1 5 10 15

Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro  
 20 25 30

Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp  
 35 40 45

Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr  
 50 55 60

Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp  
 65 70 75 80

Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg  
 85 90 95

Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn  
 100 105 110

Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Ser  
 115 120 125

Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp

130	135	140
Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys 145 150 155 160		
Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val 165 170 175		
Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr 180 185 190		
Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu 195 200 205		
Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg 210 215 220		
Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp 225 230 235 240		
Val Leu Thr Gly Lys Trp Val Ala Gln Asp Ala Gly Ile Gly Ala Gly 245 250 255		
Val Asp Ser Tyr Phe Glu Tyr Leu Val Lys Gly Ala Ile Leu Leu Gln 260 265 270		
Asp Lys Lys Leu Met Ala Met Phe Leu Glu Tyr Asn Lys Ala Ile Arg 275 280 285		
Asn Tyr Thr Arg Phe Asp Asp Trp Tyr Leu Trp Val Gln Met Tyr Lys 290 295 300		
Gly Thr Val Ser Met Pro Val Phe Gln Ser Leu Glu Ala Tyr Trp Pro 305 310 315 320		
Gly Leu Gln Ser Leu Xaa Gly Asp Ile Asp Asn Ala Met Arg Thr Phe 325 330 335		
Leu Asn Tyr Tyr Thr Xaa Trp Lys Gln Phe Gly Gly Leu Pro Glu Phe 340 345 350		
Tyr Asn Ile Pro Gln Gly Tyr Thr Val Glu Lys Arg Glu Gly Tyr Pro 355 360 365		
Leu Arg Pro Glu Leu Ile Glu Ser Ala Met Tyr Leu Tyr Arg Ala Thr 370 375 380		
Gly Asp Pro Thr Leu Leu Glu Leu Gly Arg Asp Ala Val Glu Ser Ile 385 390 395 400		
Glu Lys Ile Ser Lys Val Glu Cys Gly Phe Ala Thr Ile Lys Asp Leu 405 410 415		
Arg Asp His Lys Leu Asp Asn Arg Met Glu Ser Phe Phe Leu Ala Glu 420 425 430		
Thr Val Lys Tyr Leu Tyr Leu Leu Phe Asp Pro Xaa Asn Phe Ile His 435 440 445		
Asn Asn Gly Ser Thr Phe Asp Ala Val Ile Thr Pro Tyr Gly Glu Cys 450 455 460		

Ile Leu Gly Ala Gly Gly Tyr Ile Phe Asn Thr Glu Ala His Pro Ile  
 465 470 475 480

Asp Pro Ala Ala Leu His Cys Cys Gln Arg Leu Lys Glu Glu Gln Trp  
 485 490 495

Glu Val Glu Asp Leu Met Arg Glu Phe Tyr Ser Leu Lys Arg Ser Arg  
 500 505 510

Ser Lys Phe Gln Lys Asn Thr Val Ser Ser Gly Pro Trp Glu Pro Pro  
 515 520 525

Ala Arg Pro Gly Thr Leu Phe Ser Pro Glu Asn His Asp Gln Ala Arg  
 530 535 540

Glu Arg Lys Pro Ala Lys Gln Lys Val Pro Leu Leu Ser Cys Pro Ser  
 545 550 555 560

Gln Pro Phe Thr Ser Lys Leu Ala Leu Leu Gly Gln Val Phe Leu Asp  
 565 570 575

Ser Ser

<210> 701  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 701  
 Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu  
 1 5 10 15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu  
 20 25 30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly  
 35 40 45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys  
 50 55 60

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr  
 65 70 75 80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala  
 85 90 95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His  
 100 105 110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala  
 115 120 125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln  
 130 135 140

Gly Pro Ala Ala Arg Gly Thr Trp

145

150

<210> 702  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 702  
 Met Ala Phe Arg Tyr Leu Ser Trp Ile Leu Phe Pro Leu Leu Gly Cys  
           1                          5                          10                          15  
 Tyr Ala Val Tyr Ser Leu Leu Tyr Leu Glu His Lys Gly Trp Tyr Ser  
                           20                          25                          30  
 Trp Val Leu Ser Met Leu Tyr Gly Phe Leu Leu Thr Phe Gly Phe Ile  
                           35                          40                          45  
 Thr Met Thr Pro Gln Leu Phe Ile Asn Tyr Lys Leu Lys Ser Val Ala  
           50                          55                          60  
 His Leu Pro Trp Arg Met Leu Thr Tyr Lys Ala Leu Asn Thr Phe Ile  
           65                          70                          75                          80  
 Asp Asp Leu Phe Ala Phe Val Ile Lys Met Pro Val Met Tyr Arg Ile  
                           85                          90                          95  
 Gly Cys Leu Arg Asp Asp Val Val Phe Phe Ile Tyr Leu Tyr Gln Arg  
                           100                          105                          110  
 Trp Ile Tyr Arg Val Asp Pro Thr Arg Val Asn Glu Phe Gly Met Ser  
           115                          120                          125  
 Gly Glu Asp Pro Thr Ala Ala Ala Pro Val Ala Glu Val Pro Thr Ala  
           130                          135                          140  
 Ala Gly Ala Leu Thr Pro Thr Pro Ala Pro Thr Thr Thr Thr Ala Thr  
           145                          150                          155                          160  
 Arg Glu Glu Ala Ser Thr Ser Leu Pro Thr Lys Pro Thr Gln Gly Ala  
                           165                          170                          175  
 Ser Ser Ala Ser Glu Pro Gln Glu Ala Pro Pro Lys Pro Ala Glu Asp  
           180                          185                          190  
 Lys Lys Lys Asp  
           195

<210> 703  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 703  
 Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro  
           1                          5                          10                          15  
 Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser

20 25 30

Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro  
 35 40 45

Ser Ile Lys Glu  
 50

<210> 704  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 704  
 Met Gly Leu His Leu Arg Pro Tyr Arg Val Gly Leu Leu Pro Asp Gly  
 1 5 10 15

Leu Leu Phe Leu Leu Leu Leu Leu Met Leu Leu Ala Asp Pro Ala Leu  
 20 25 30

Pro Ala Gly Arg His Pro Pro Val Val Leu Val Pro Gly Asp Leu Gly  
 35 40 45

Asn Gln Leu Glu Ala Lys Leu Asp Lys Pro Thr Val Val His Tyr Leu  
 50 55 60

Cys Ser Lys Lys Thr Glu Ser Tyr Phe Thr Ile Trp Leu Asn Leu Glu  
 65 70 75 80

Leu Leu Leu Pro Val His His  
 85

<210> 705  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 705  
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu  
 1 5 10 15

Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn  
 20 25 30

Phe Gly Phe Lys Trp Leu Lys Asp  
 35 40

<210> 706  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 706  
 Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala Ala  
 1 5 10 15

Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro Pro  
                   20                  25                  30  
 His Gly Trp Met Ser Met Pro Phe Thr Pro His Pro Leu Val Ser Arg  
           35                  40                  45  
 Ala Met Pro Thr Cys His Pro Cys Ser  
       50                  55

<210> 707  
 <211> 525  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any amino acid

<400> 707  
 Met Leu Ala Phe Pro Leu Leu Leu Thr Gly Leu Ile Ser Phe Arg Glu  
   1                  5                  10                  15  
 Lys Arg Leu Gln Asp Val Gly Thr Pro Ala Ala Arg Ala Arg Ala Phe  
                   20                  25                  30  
 Phe Thr Ala Pro Val Val Val Phe His Leu Asn Ile Leu Ser Tyr Phe  
           35                  40                  45  
 Ala Phe Leu Cys Leu Phe Ala Tyr Val Leu Met Val Asp Phe Gln Pro  
       50                  55                  60  
 Val Pro Ser Trp Cys Glu Cys Ala Ile Tyr Leu Trp Leu Phe Ser Leu  
       65                  70                  75                  80  
 Val Cys Glu Glu Met Arg Gln Leu Phe Tyr Asp Pro Asp Glu Cys Gly  
                   85                  90                  95  
 Leu Met Lys Lys Ala Ala Leu Tyr Phe Ser Asp Phe Trp Asn Lys Leu  
           100                  105                  110  
 Asp Val Gly Ala Ile Leu Leu Phe Val Ala Gly Leu Thr Cys Arg Leu  
       115                  120                  125  
 Ile Pro Ala Thr Leu Tyr Pro Gly Arg Val Ile Leu Ser Leu Asp Phe  
       130                  135                  140  
 Ile Leu Phe Cys Leu Arg Leu Met His Ile Phe Thr Ile Ser Lys Thr  
       145                  150                  155                  160  
 Leu Gly Pro Lys Ile Ile Ile Val Lys Arg Met Met Lys Asp Val Phe  
           165                  170                  175  
 Phe Phe Leu Phe Leu Leu Ala Val Trp Val Val Ser Phe Gly Val Ala  
       180                  185                  190  
 Lys Gln Ala Ile Leu Ile His Asn Glu Arg Arg Val Asp Trp Leu Phe  
       195                  200                  205

Arg Xaa Ala Val Tyr His Ser Tyr Leu Thr Ile Phe Gly Gln Ile Pro  
 210 215 220  
 Gly Tyr Ile Asp Gly Val Asn Phe Asn Pro Glu His Cys Ser Pro Asn  
 225 230 235 240  
 Gly Thr Asp Pro Tyr Lys Pro Lys Cys Pro Glu Ser Asp Ala Thr Gln  
 245 250 255  
 Gln Arg Pro Ala Phe Pro Glu Trp Leu Thr Val Leu Leu Leu Cys Leu  
 260 265 270  
 Tyr Leu Leu Phe Thr Asn Ile Leu Leu Leu Asn Leu Leu Ile Ala Met  
 275 280 285  
 Phe Asn Tyr Thr Phe Gln Gln Val Gln Glu His Thr Asp Gln Ile Trp  
 290 295 300  
 Lys Phe Gln Arg His Asp Leu Ile Glu Glu Tyr His Gly Arg Pro Ala  
 305 310 315 320  
 Ala Pro Pro Pro Phe Ile Leu Leu Ser His Leu Gln Leu Phe Ile Lys  
 325 330 335  
 Arg Val Val Leu Lys Thr Pro Ala Lys Arg His Lys Gln Leu Lys Asn  
 340 345 350  
 Lys Leu Glu Lys Asn Glu Glu Ala Ala Leu Leu Ser Trp Glu Ile Tyr  
 355 360 365  
 Leu Lys Glu Asn Tyr Leu Gln Asn Arg Gln Phe Gln Gln Lys Gln Arg  
 370 375 380  
 Pro Glu Gln Lys Ile Glu Asp Ile Ser Asn Lys Val Asp Ala Met Val  
 385 390 395 400  
 Asp Leu Leu Asp Leu Asp Pro Leu Lys Arg Ser Gly Ser Met Glu Gln  
 405 410 415  
 Arg Leu Ala Ser Leu Glu Glu Gln Val Ala Gln Thr Ala Arg Ala Leu  
 420 425 430  
 His Trp Ile Val Arg Thr Leu Arg Ala Ser Gly Phe Ser Ser Glu Ala  
 435 440 445  
 Asp Val Pro Thr Leu Ala Ser Gln Lys Ala Ala Glu Glu Pro Asp Ala  
 450 455 460  
 Glu Pro Gly Gly Arg Lys Lys Thr Glu Glu Pro Gly Asp Ser Tyr His  
 465 470 475 480  
 Val Asn Ala Arg His Leu Leu Tyr Pro Asn Cys Pro Val Thr Arg Phe  
 485 490 495  
 Pro Val Pro Asn Glu Lys Val Pro Trp Glu Thr Glu Phe Leu Ile Tyr  
 500 505 510  
 Asp Pro Pro Phe Tyr Thr Ala Glu Arg Lys Asp Ala Ala  
 515 520 525

&lt;210&gt; 708

&lt;211&gt; 937

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 708

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Met Gln Asn Ser Gly Lys Thr Lys Phe Lys Arg Thr Ser Ile Asp Arg
 1           5           10           15

Leu Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu
          20           25           30

Gly Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly
          35           40           45

Asp Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser
 50           55           60

Val Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn
 65           70           75           80

Thr Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu
          85           90           95

Gly His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Ser Arg
          100          105          110

Lys Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu Glu Leu
          115          120          125

Gly Gln Ile Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Gln
          130          135          140

Asn Ile Met Thr Phe Lys Arg Cys Ser Ile Asn Gly Arg Ile Tyr Gly
          145          150          155          160

Glu Val His Asp Asp Leu Asp Gln Lys Thr Glu Ile Thr Gln Glu Lys
          165          170          175

Glu Pro Val Asp Phe Ser Val Lys Ser Gln Ala Asp Arg Glu Phe Gln
          180          185          190

Phe Phe Asp His Asn Leu Met Glu Ser Ile Lys Met Gly Asp Pro Lys
          195          200          205

Val His Glu Phe Leu Arg Leu Leu Ala Leu Cys His Thr Val Met Ser
          210          215          220

Glu Glu Asn Ser Ala Gly Glu Leu Ile Tyr Gln Val Gln Ser Pro Asp
          225          230          235          240

Glu Gly Ala Leu Val Thr Ala Ala Arg Asn Phe Gly Phe Ile Phe Lys
          245          250          255

Ser Arg Thr Pro Glu Thr Ile Thr Ile Glu Glu Leu Gly Thr Leu Val
          260          265          270

Thr Tyr Gln Leu Leu Ala Phe Leu Asp Phe Asn Asn Thr Arg Lys Arg
          275          280          285

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Met Ser Val Ile Val Arg Asn Pro Glu Gly Gln Ile Lys Leu Tyr Ser  
 290 295 300  
 Lys Gly Ala Asp Thr Ile Leu Phe Glu Lys Leu His Pro Ser Asn Glu  
 305 310 315 320  
 Val Leu Leu Ser Leu Thr Ser Asp His Leu Ser Glu Phe Ala Gly Glu  
 325 330 335  
 Gly Leu Arg Thr Leu Ala Ile Ala Tyr Arg Asp Leu Asp Asp Lys Tyr  
 340 345 350  
 Phe Lys Glu Trp His Lys Met Leu Glu Asp Ala Asn Val Ala Thr Glu  
 355 360 365  
 Glu Arg Asp Glu Arg Ile Ala Gly Leu Tyr Glu Glu Ile Glu Arg Asp  
 370 375 380  
 Leu Met Leu Leu Gly Ala Thr Ala Val Glu Asp Lys Leu Gln Glu Gly  
 385 390 395 400  
 Val Ile Glu Thr Val Thr Ser Leu Ser Leu Ala Asn Ile Lys Ile Trp  
 405 410 415  
 Val Leu Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ala  
 420 425 430  
 Cys Asn Met Leu Thr Asp Asp Met Asn Asp Val Phe Val Ile Ala Gly  
 435 440 445  
 Asn Asn Ala Val Glu Val Arg Glu Glu Leu Arg Lys Ala Lys Gln Asn  
 450 455 460  
 Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys Glu  
 465 470 475 480  
 Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile Thr  
 485 490 495  
 Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala Leu  
 500 505 510  
 Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys Lys  
 515 520 525  
 Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val Val  
 530 535 540  
 Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly Asp  
 545 550 555 560  
 Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val Gly  
 565 570 575  
 Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr Ser  
 580 585 590  
 Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly Arg  
 595 600 605

Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr Lys  
 610 615 620  
 Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys Gly  
 625 630 635 640  
 Phe Ser Ala Gln Thr Val Tyr Asp Gln Trp Phe Ile Thr Leu Phe Asn  
 645 650 655  
 Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile Phe Asp Gln  
 660 665 670  
 Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu Tyr Lys Pro  
 675 680 685  
 Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe Ile Cys Val  
 690 695 700  
 Met His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile Pro Tyr Gly  
 705 710 715 720  
 Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile Ala Asp Tyr  
 725 730 735  
 Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile Val Val Ser  
 740 745 750  
 Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile Asn His Val  
 755 760 765  
 Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu Phe Thr Met  
 770 775 780  
 His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe Pro Phe Val  
 785 790 795 800  
 Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp Leu Val Ile  
 805 810 815  
 Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala Phe Arg Phe  
 820 825 830  
 Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile Arg Arg Trp  
 835 840 845  
 Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg Arg Pro Arg  
 850 855 860  
 Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe Ala His Gln  
 865 870 875 880  
 Glu Gly Tyr Gly Glu Leu Ile Thr Ser Gly Lys Asn Met Arg Ala Lys  
 885 890 895  
 Asn Pro Pro Pro Thr Ser Gly Leu Glu Lys Thr His Tyr Asn Ser Thr  
 900 905 910  
 Ser Trp Ile Glu Asn Leu Cys Lys Lys Thr Thr Asp Thr Val Ser Ser  
 915 920 925  
 Phe Ser Gln Asp Lys Thr Val Lys Leu

930

935

&lt;210&gt; 709

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 709

Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp  
 1 5 10 15

Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys  
 20 25 30

Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys  
 35 40 45

Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe  
 50 55 60

Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro  
 65 70 75 80

Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu  
 85 90 95

Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro  
 100 105 110

Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala  
 115 120 125

Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu  
 130 135 140

Cys Pro Pro Ser Gln Ala Gln  
 145 150

&lt;210&gt; 710

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 710

Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu Ile Thr Val  
 1 5 10 15

Leu Phe Ala Val Ala Phe Ser Val Leu Leu Leu Ser Cys Lys Asp His  
                     20                    25                    30  
 Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn Leu Val Ala  
                     35                    40                    45  
 Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu Ala Leu Ala  
                     50                    55                    60  
 Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln Lys Val Gly  
                     65                    70                    75                    80  
 Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu Pro Ile Gly  
                     85                    90                    95  
 Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser  
                     100                    105                    110  
 Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe  
                     115                    120                    125  
 Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala Gln Val His  
                     130                    135                    140  
 Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn Ser Ala Leu  
                     145                    150                    155                    160  
 Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu Glu Gly Ile  
                     165                    170                    175  
 Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser Asp Gln Gln  
                     180                    185                    190  
 Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp Gly Ala Lys  
                     195                    200                    205  
 Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu Leu Leu Gly  
                     210                    215                    220  
 Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe Tyr Val Arg  
                     225                    230                    235                    240  
 Ile Gln

&lt;210&gt; 711

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 711

Met Ile Gly Gly Ile Thr Cys Ile Leu Ser Leu Ile Cys Ala Leu Ala  
                     1                    5                    10                    15

Leu Ala Tyr Leu Asp Gln Arg Ala Glu Arg Ile Leu His Lys Glu Gln  
                     20                    25                    30

Gly Lys Thr Gly Glu Val Ile Lys Leu Thr Asp Val Lys Asp Phe Ser  
                     35                    40                    45

Leu Pro Leu Trp Leu Ile Phe Ile Ile Cys Val Cys Tyr Tyr Val Ala  
 50 55 60  
 Val Phe Pro Phe Ile Gly Leu Gly Lys Val Phe Phe Thr Glu Lys Phe  
 65 70 75 80  
 Gly Phe Ser Ser Gln Ala Ala Ser Ala Ile Asn Ser Val Val Tyr Val  
 85 90 95  
 Ile Ser Ala Pro Met Ser Pro Val Phe Gly Leu Leu Val Asp Lys Thr  
 100 105 110  
 Gly Lys Asn Ile Ile Trp Val Leu Cys Ala  
 115 120

<210> 712  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 712  
 Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
 1 5 10 15  
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
 20 25 30  
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
 35 40 45

<210> 713  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 713  
 Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly  
 1 5 10 15  
 His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu  
 20 25 30  
 His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg  
 35 40 45  
 Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly  
 50 55 60  
 Thr Phe  
 65

<210> 714  
 <211> 90  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 714

Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
 1 5 10 15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr  
 20 25 30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
 35 40 45  
 Ser Ser His Ser Pro Arg Thr Trp Arg Thr Pro Ser Ser Gln Thr Lys  
 50 55 60  
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys  
 65 70 75 80  
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met  
 85 90

&lt;210&gt; 715

&lt;211&gt; 710

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 715

Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro  
 1 5 10 15  
 Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His  
 20 25 30  
 Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys  
 35 40 45  
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr  
 50 55 60  
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys  
 65 70 75 80  
 Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp  
 85 90 95  
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly  
 100 105 110  
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser  
 115 120 125  
 Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val  
 130 135 140  
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr  
 145 150 155 160  
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr  
 165 170 175

Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro  
 180 185 190  
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala  
 195 200 205  
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Phe Gly  
 210 215 220  
 Leu Ser Leu Tyr Trp Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp  
 225 230 235 240  
 His Lys Asn Leu Thr Gly Pro Gln Ile Ile Thr Leu Asn His Thr Asp  
 245 250 255  
 Leu Val Pro Cys Leu Cys Ile Gln Val Trp Pro Leu Glu Pro Asp Ser  
 260 265 270  
 Val Arg Thr Asn Ile Cys Pro Phe Arg Glu Asp Pro Arg Ala His Gln  
 275 280 285  
 Asn Leu Trp Gln Ala Ala Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp  
 290 295 300  
 Leu Leu Asp Ala Pro Cys Ser Leu Pro Ala Glu Ala Ala Leu Cys Trp  
 305 310 315 320  
 Arg Ala Pro Gly Gly Asp Pro Cys Gln Pro Leu Val Pro Pro Leu Ser  
 325 330 335  
 Trp Glu Asn Val Thr Val Asp Lys Val Leu Glu Phe Pro Leu Leu Lys  
 340 345 350  
 Gly His Pro Asn Leu Cys Val Gln Val Asn Ser Ser Glu Lys Leu Gln  
 355 360 365  
 Leu Gln Glu Cys Leu Trp Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp  
 370 375 380  
 Val Leu Leu Leu Glu Thr Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys  
 385 390 395 400  
 Ala Leu Glu Pro Ser Gly Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr  
 405 410 415  
 Arg Ala Ala Arg Leu Gly Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly  
 420 425 430  
 Gln Cys Leu Gln Leu Trp Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys  
 435 440 445  
 Pro Met Asp Lys Tyr Ile His Lys Arg Trp Ala Leu Val Trp Leu Ala  
 450 455 460  
 Cys Leu Leu Phe Ala Ala Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys  
 465 470 475 480  
 Asp His Ala Lys Gly Trp Leu Arg Leu Leu Lys Gln Asp Val Arg Ser  
 485 490 495

Gly Ala Ala Ala Arg Gly Arg Ala Ala Leu Leu Leu Tyr Ser Ala Asp  
 500 505 510  
 Asp Ser Gly Phe Glu Arg Leu Val Gly Ala Leu Ala Ser Ala Leu Cys  
 515 520 525  
 Gln Leu Pro Leu Arg Val Ala Val Asp Leu Trp Ser Arg Arg Glu Leu  
 530 535 540  
 Ser Ala Gln Gly Pro Val Ala Trp Phe His Ala Gln Arg Arg Gln Thr  
 545 550 555 560  
 Leu Gln Glu Gly Gly Val Val Val Leu Leu Phe Ser Pro Gly Ala Val  
 565 570 575  
 Ala Leu Cys Ser Glu Trp Leu Gln Asp Gly Val Ser Gly Pro Gly Ala  
 580 585 590  
 His Gly Pro His Asp Ala Phe Arg Ala Ser Leu Ser Cys Val Leu Pro  
 595 600 605  
 Asp Phe Leu Gln Gly Arg Ala Pro Gly Ser Tyr Val Gly Ala Cys Phe  
 610 615 620  
 Asp Arg Leu Leu His Pro Asp Ala Val Pro Ala Leu Phe Arg Thr Val  
 625 630 635 640  
 Pro Val Phe Thr Leu Pro Ser Gln Leu Pro Asp Phe Leu Gly Ala Leu  
 645 650 655  
 Gln Gln Pro Arg Ala Pro Arg Ser Gly Arg Leu Gln Glu Arg Ala Glu  
 660 665 670  
 Gln Val Ser Arg Ala Leu Gln Pro Ala Leu Asp Ser Tyr Phe His Pro  
 675 680 685  
 Pro Gly Thr Pro Ala Pro Gly Arg Gly Val Gly Pro Gly Ala Gly Pro  
 690 695 700  
 Gly Ala Gly Asp Gly Thr  
 705 710

&lt;210&gt; 716

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 716

Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile  
 1 5 10 15  
 Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln  
 20 25 30  
 Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser  
 35 40 45



&lt;210&gt; 717

&lt;211&gt; 467

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val  
 1 5 10 15

Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser  
 20 25 30

Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe  
 35 40 45

Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr  
 50 55 60

Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr  
 65 70 75 80

Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His  
 85 90 95

Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp  
 100 105 110

Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly  
 115 120 125

Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr  
 130 135 140

Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser  
 145 150 155 160

Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln  
 165 170 175

Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu  
 180 185 190

His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro  
 195 200 205

Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala  
 210 215 220

Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro  
 225 230 235 240

Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr  
 245 250 255

Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu  
 260 265 270

Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp

275                      280                      285  
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu  
 290                      295                      300  
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys  
 305                      310                      315                      320  
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser  
 325                      330                      335  
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu  
 340                      345                      350  
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser  
 355                      360                      365  
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala  
 370                      375                      380  
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr  
 385                      390                      395                      400  
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp  
 405                      410                      415  
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu  
 420                      425                      430  
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln  
 435                      440                      445  
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys  
 450                      455                      460  
 Ile Pro Lys  
 465

<210> 718  
 <211> 455  
 <212> PRT  
 <213> Homo sapiens

<400> 718  
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
 1                      5                      10                      15  
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
 20                      25                      30  
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
 35                      40                      45  
 Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Pro  
 50                      55                      60  
 Cys Ile Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Arg  
 65                      70                      75                      80

Asn Phe Leu Leu Arg Ser Arg Ala Leu Ala Thr Gln Arg Arg Ser Ala  
 85 90 95  
 Arg Val Thr Gly Leu Thr Arg Leu Pro Thr Cys Ala Arg Leu Gly Leu  
 100 105 110  
 Gly Thr Arg Arg Arg Arg Gln Arg Arg Gly Glu Arg Trp Arg Arg Arg  
 115 120 125  
 Ala Gly Ser Ala Gly Ser Arg Arg Cys Ser Gly Arg Lys Arg Arg Gly  
 130 135 140  
 Val Cys Arg Arg Gly Arg Cys Arg Gln Arg Trp Arg Ser Arg Ala Pro  
 145 150 155 160  
 Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala Gly Pro Glu  
 165 170 175  
 Phe Leu Trp Leu Trp Ile Gly Leu Ala Lys Ala Gly Leu Arg Thr Ala  
 180 185 190  
 Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His Cys Leu Arg  
 195 200 205  
 Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe Leu Glu Ser  
 210 215 220  
 Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu His Leu Trp  
 225 230 235 240  
 Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp Leu Leu Ala  
 245 250 255  
 Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr Leu Ser Ser  
 260 265 270  
 Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr Ser Gly Thr  
 275 280 285  
 Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys Ile Leu Gln  
 290 295 300  
 Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu Asp Val Ile  
 305 310 315 320  
 Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu Leu Gly Ile  
 325 330 335  
 Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys Ser Lys Phe  
 340 345 350  
 Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg Val Thr Val  
 355 360 365  
 Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn Gln Pro Pro  
 370 375 380  
 Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val Gly Ser Gly  
 385 390 395 400  
 Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe Gly Pro Leu

405							410							415						
Gln	Val	Leu	Glu	Thr	Tyr	Gly	Leu	Thr	Glu	Gly	Asn	Val	Pro	Pro	Ser					
420							425							430						
Thr	Thr	Gln	Asp	Ser	Gly	Ala	Leu	Trp	Gly	Val	Leu	Pro	Gly	Phe	Thr					
435							440							445						
Ser	Ile	Ser	Ser	Pro	Ser	Pro														
450							455													

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<210> 719
<211> 802
<212> PRT
<213> Homo sapiens
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<400>	719																
Met	Leu	Gly	Ala	Arg	Ala	Trp	Leu	Gly	Arg	Val	Leu	Leu	Leu	Pro	Arg		
1				5					10					15			
Ala	Gly	Ala	Gly	Leu	Ala	Ala	Ser	Arg	Arg	Cys	Pro	Gly	Val	Trp	Pro		
			20					25					30				
Arg	Thr	Trp	Pro	His	Arg	Ser	Pro	Ser	Arg	Gly	Ser	Ser	Ser	Arg	Asp		
		35					40					45					
Lys	Asp	Arg	Ser	Ala	Thr	Val	Ser	Ser	Ser	Val	Pro	Met	Pro	Ala	Gly		
	50					55					60						
Gly	Lys	Gly	Ser	His	Pro	Ser	Ser	Thr	Pro	Gln	Arg	Val	Pro	Asn	Arg		
	65				70					75					80		
Leu	Ile	His	Glu	Lys	Ser	Pro	Tyr	Leu	Leu	Gln	His	Ala	Tyr	Asn	Pro		
				85					90					95			
Val	Asp	Trp	Tyr	Pro	Trp	Gly	Gln	Glu	Ala	Phe	Asp	Lys	Ala	Arg	Lys		
			100					105					110				
Glu	Asn	Lys	Pro	Ile	Phe	Leu	Ser	Val	Gly	Tyr	Ser	Thr	Cys	His	Trp		
		115					120					125					
Cys	His	Met	Met	Glu	Glu	Glu	Ser	Phe	Gln	Asn	Glu	Glu	Ile	Gly	Arg		
		130				135					140						
Leu	Leu	Ser	Glu	Asp	Phe	Val	Ser	Val	Lys	Val	Asp	Arg	Glu	Glu	Arg		
	145				150					155					160		
Pro	Asp	Val	Asp	Lys	Val	Tyr	Met	Thr	Phe	Val	Gln	Ala	Thr	Ser	Ser		
				165					170					175			
Gly	Gly	Gly	Trp	Pro	Met	Asn	Val	Trp	Leu	Thr	Pro	Asn	Leu	Gln	Pro		
			180					185					190				
Phe	Val	Gly	Gly	Thr	Tyr	Phe	Pro	Pro	Glu	Asp	Gly	Leu	Thr	Arg	Val		
		195					200					205					
Gly	Phe	Arg	Thr	Val	Leu	Leu	Arg	Ile	Arg	Glu	Gln	Trp	Lys	Gln	Asn		
	210					215					220						

Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu  
 225 230 235 240  
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala  
 245 250 255  
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp  
 260 265 270  
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val  
 275 280 285  
 Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln  
 290 295 300  
 Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met  
 305 310 315 320  
 Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr  
 325 330 335  
 Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr  
 340 345 350  
 Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser  
 355 360 365  
 Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val  
 370 375 380  
 Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp  
 385 390 395 400  
 Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr  
 405 410 415  
 Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val  
 420 425 430  
 Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His  
 435 440 445  
 Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys  
 450 455 460  
 Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu  
 465 470 475 480  
 Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu  
 485 490 495  
 Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro  
 500 505 510  
 Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met  
 515 520 525  
 Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu  
 530 535 540  
 Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe

545                      550                      555                      560  
 Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly  
                                  565                                   570                                   575  
 Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp  
                                  580                                   585                                   590  
 Tyr Ala Phe Val Val Arg Gly Leu Leu Asp Leu Tyr Glu Ala Ser Gln  
                                  595                                   600                                   605  
 Glu Ser Ala Trp Leu Glu Trp Ala Leu Arg Leu Gln Asp Thr Gln Asp  
                                  610                                   615                                   620  
 Arg Leu Phe Trp Asp Ser Gln Gly Gly Gly Tyr Phe Cys Ser Glu Ala  
                                  625                                   630                                   635                                   640  
 Glu Leu Gly Ala Gly Leu Pro Leu Arg Leu Lys Asp Asp Gln Asp Gly  
                                  645                                   650                                   655  
 Ala Glu Pro Ser Ala Asn Ser Val Ser Ala His Asn Leu Leu Arg Leu  
                                  660                                   665                                   670  
 His Gly Phe Thr Gly His Lys Asp Trp Met Asp Lys Cys Val Cys Leu  
                                  675                                   680                                   685  
 Leu Thr Ala Phe Ser Glu Arg Met Arg Arg Val Pro Val Ala Leu Pro  
                                  690                                   695                                   700  
 Glu Met Val Arg Ala Leu Ser Ala Gln Gln Gln Thr Leu Lys Gln Ile  
                                  705                                   710                                   715                                   720  
 Val Ile Cys Gly Asp Arg Gln Ala Lys Asp Thr Lys Ala Leu Val Gln  
                                  725                                   730                                   735  
 Cys Val His Ser Val Tyr Ile Pro Asn Lys Val Leu Ile Leu Ala Asp  
                                  740                                   745                                   750  
 Gly Asp Pro Ser Ser Phe Leu Ser Arg Gln Leu Pro Phe Leu Ser Thr  
                                  755                                   760                                   765  
 Leu Arg Arg Leu Glu Asp Gln Ala Thr Ala Tyr Val Cys Glu Asn Gln  
                                  770                                   775                                   780  
 Ala Cys Ser Val Pro Ile Thr Asp Pro Cys Glu Leu Arg Lys Leu Leu  
                                  785                                   790                                   795                                   800  
 His Pro

&lt;210&gt; 720

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
   1                                  5                                  10                                  15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
                   20                                  25                                  30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
                   35                                  40                                  45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
                   50                                  55                                  60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
                   65                                  70                                  75                                  80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
                                   85                                  90                                  95

Leu Pro

<210> 721  
 <211> 331  
 <212> PRT  
 <213> Homo sapiens

<400> 721  
 Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val  
   1                                  5                                  10                                  15

Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln  
                   20                                  25                                  30

Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met  
                   35                                  40                                  45

Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr  
                   50                                  55                                  60

Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr  
                   65                                  70                                  75                                  80

Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr  
                                   85                                  90                                  95

Pro Ala Leu Gln Pro Lys Glu Pro Pro Pro Ser Leu Leu Glu Ala Asp  
                   100                                  105                                  110

Leu Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu  
                   115                                  120                                  125

Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu  
                   130                                  135                                  140

Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly  
                   145                                  150                                  155                                  160

Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val  
                   165                                  170                                  175

Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu

180	185	190
Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu		
195	200	205
Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val		
210	215	220
Ser Val Arg Ala Ala Ile Pro Ser Ser Ile Leu Arg Leu Pro Ala Ala		
225	230	235
Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Leu Val Arg Val		
245	250	255
Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu		
260	265	270
His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln		
275	280	285
Ala Ile Pro Leu Val Ser Val Ala Ser Val Ala Ala Gly Lys Ala Lys		
290	295	300
Lys Gln Val Phe Tyr Gly Glu Glu Glu Arg Leu Lys Lys Pro Pro Arg		
305	310	315
Leu Gln Glu Ser Cys Asp Ser Asp His Gly Gly		
325	330	

&lt;210&gt; 722

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 722

Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe		
1	5	10
Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly		
20	25	30
Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu		
35	40	45
Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys		
50	55	60
Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu		
65	70	75
Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg		
85	90	95
Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr		
100	105	110
Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg		
115	120	125



Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Met  
 130 135 140  
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly  
 145 150 155 160  
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu  
 165 170 175  
 Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His  
 180 185 190  
 Ser Glu Asn Pro Lys Tyr Pro Glu Val Gly Asp Leu Arg Val Ser Phe  
 195 200 205  
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His  
 210 215 220  
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe  
 225 230 235 240  
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe  
 245 250 255  
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys  
 260 265 270  
 Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu  
 275 280 285  
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val  
 290 295 300  
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val  
 305 310 315 320  
 Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr  
 325 330 335  
 Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile  
 340 345 350  
 Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu  
 355 360 365

&lt;210&gt; 723

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 723

Met Lys Leu Leu Leu Trp Ala Cys Ile Val Cys Val Ala Phe Ala Arg  
 1 5 10 15  
 Lys Arg Arg Phe Pro Phe Ile Gly Glu Asp Asp Asn Asp Asp Gly His  
 20 25 30  
 Pro Leu His Pro Ser Leu Asn Ile Pro Tyr Gly Ile Arg Asn Leu Pro  
 35 40 45

Pro Pro Leu Tyr Tyr Arg Pro Val Asn Thr Val Pro Ser Tyr Pro Gly  
 50 55 60  
 Asn Thr Tyr Thr Asp Thr Gly Leu Pro Ser Tyr Pro Trp Ile Leu Thr  
 65 70 75 80  
 Ser Pro Gly Phe Pro Tyr Val Tyr His Ile Arg Gly Phe Pro Leu Ala  
 85 90 95  
 Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val  
 100 105 110  
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Ala Ala Pro Pro  
 115 120 125  
 Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val  
 130 135 140  
 Ala Ala Glu Pro Ala Ala Gly Ala Pro Val Ala Ala Glu Pro Ala Ala  
 145 150 155 160  
 Glu Ala Pro Val Gly Ala Glu Pro Ala Ala Glu Ala Pro Val Ala Ala  
 165 170 175  
 Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu Glu  
 180 185 190  
 Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu Pro  
 195 200 205  
 His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln  
 210 215

<210> 724  
 <211> 608  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (265)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (597)  
 <223> Xaa equals any amino acid

<400> 724  
 Met Val Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile  
 1 5 10 15  
 Leu His Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser  
 20 25 30  
 Asn Arg Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp  
 35 40 45

Ser Ile Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly  
 50 55 60  
 Gly Thr Asp Ile Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn  
 65 70 75 80  
 Lys Tyr Val Ala His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile  
 85 90 95  
 Val Phe Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu  
 100 105 110  
 Lys Ile Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile  
 115 120 125  
 Phe Thr Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys  
 130 135 140  
 Leu Ser Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu  
 145 150 155 160  
 Asp Ala Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro  
 165 170 175  
 Leu Leu Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln  
 180 185 190  
 Ala Thr Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile  
 195 200 205  
 Ile Ala Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu  
 210 215 220  
 Val Thr Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val  
 225 230 235 240  
 Pro Val Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg  
 245 250 255  
 Pro Gly Gly Asp Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp  
 260 265 270  
 Ser Tyr Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp  
 275 280 285  
 Asp Glu Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala  
 290 295 300  
 Val Ser Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly  
 305 310 315 320  
 Pro Val Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala  
 325 330 335  
 Ala Met Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr  
 340 345 350  
 Gln Pro Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile  
 355 360 365  
 Ser Lys Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro

370                      375                      380  
 Leu Ser Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp  
 385                      390                      395                      400  
 Ile Leu Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn  
                     405                      410                      415  
 Gly Glu Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln  
                     420                      425                      430  
 Arg Thr Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg  
                     435                      440                      445  
 Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp  
                     450                      455                      460  
 Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly  
 465                      470                      475                      480  
 Leu Glu Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln  
                     485                      490                      495  
 Gly Ser Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala  
                     500                      505                      510  
 Pro Phe Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly  
                     515                      520                      525  
 Leu Ser Ser Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp  
                     530                      535                      540  
 Ala Arg Leu Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His  
 545                      550                      555                      560  
 Pro Leu Leu Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val  
                     565                      570                      575  
 Lys Gly His Gln Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn  
                     580                      585                      590  
 Gly Glu Glu Gln Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn  
                     595                      600                      605

&lt;210&gt; 725

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 725

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
 1                      5                      10                      15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
                     20                      25                      30

Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro  
                   35                                  40                                  45

Ala Pro Asp His Val Gly Arg Ala  
           50                                  55

<210> 726

<211> 29

<212> PRT

<213> Homo sapiens

<400> 726

Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
       1                                  5                                  10                                  15

Pro Ala Ser Arg Thr Leu Cys Leu Met Ala Gln Ala Val  
                   20                                  25

<210> 727

<211> 49

<212> PRT

<213> Homo sapiens

<400> 727

Met Ser Arg Ala Pro Cys Ala Ser Ser Ile Leu Val Leu Thr Leu Ile  
       1                                  5                                  10                                  15

Val Thr Leu Leu Val Leu Leu Cys Ser Val Lys Ile Cys Asn Trp Leu  
                   20                                  25                                  30

Arg Ile Thr Val Gly Val His Ser Tyr Ser Thr Lys Ser Pro Gln Val  
           35                                  40                                  45

Phe

<210> 728

<211> 540

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any amino acid

<400> 728

Met Val Arg Thr Asp Gly His Thr Leu Ser Glu Lys Arg Asn Tyr Gln  
       1                                  5                                  10                                  15

Val Thr Asn Ser Met Phe Gly Ala Ser Arg Lys Lys Phe Val Glu Gly  
                   20                                  25                                  30

Val Asp Ser Asp Tyr His Asp Glu Asn Met Tyr Tyr Ser Gln Ser Ser  
           35                                  40                                  45

Met Phe Pro His Arg Ser Glu Lys Asp Met Leu Ala Ser Pro Ser Thr  
 50 55 60  
 Ser Gly Gln Leu Ser Gln Phe Gly Ala Ser Leu Tyr Gly Gln Gln Ser  
 65 70 75 80  
 Ala Leu Gly Leu Pro Met Arg Gly Met Ser Asn Asn Thr Pro Gln Leu  
 85 90 95  
 Asn Arg Ser Leu Ser Gln Gly Thr Gln Leu Pro Ser His Val Thr Pro  
 100 105 110  
 Thr Thr Gly Val Pro Thr Met Ser Leu His Thr Pro Pro Ser Pro Ser  
 115 120 125  
 Arg Gly Ile Leu Pro Met Asn Pro Xaa Asn Met Met Asn His Ser Gln  
 130 135 140  
 Val Gly Gln Gly Ile Gly Ile Pro Ser Arg Thr Asn Ser Met Ser Ser  
 145 150 155 160  
 Ser Gly Leu Gly Ser Pro Asn Arg Ser Ser Pro Ser Ile Ile Cys Met  
 165 170 175  
 Pro Lys Gln Gln Pro Ser Arg Gln Pro Phe Thr Val Asn Ser Met Ser  
 180 185 190  
 Gly Phe Gly Met Asn Arg Asn Gln Ala Phe Gly Met Asn Asn Ser Leu  
 195 200 205  
 Ser Ser Asn Ile Phe Asn Gly Thr Asp Gly Ser Glu Asn Val Thr Gly  
 210 215 220  
 Leu Asp Leu Ser Asp Phe Pro Ala Leu Ala Asp Arg Asn Arg Arg Glu  
 225 230 235 240  
 Gly Ser Gly Asn Pro Thr Pro Leu Ile Asn Pro Leu Ala Gly Arg Ala  
 245 250 255  
 Pro Tyr Val Gly Met Val Thr Lys Pro Ala Asn Glu Gln Ser Gln Asp  
 260 265 270  
 Phe Ser Ile His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser Ser Tyr  
 275 280 285  
 Lys Asp Pro Thr Ser Ser Asn Asp Asp Ser Lys Ser Asn Leu Asn Thr  
 290 295 300  
 Ser Gly Lys Thr Thr Ser Ser Thr Asp Gly Pro Lys Phe Pro Gly Asp  
 305 310 315 320  
 Lys Ser Ser Thr Thr Gln Asn Asn Asn Gln Gln Lys Lys Gly Ile Gln  
 325 330 335  
 Val Leu Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr  
 340 345 350  
 Asp Gln Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu  
 355 360 365

Thr Asp Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr  
 370 375 380  
 Leu Gly Leu Asn Leu Asn Ser Pro Glu Asn Leu Tyr Pro Lys Phe Ala  
 385 390 395 400  
 Ser Pro Trp Ala Ser Ser Pro Cys Arg Pro Gln Asp Ile Asp Phe His  
 405 410 415  
 Val Pro Ser Glu Tyr Leu Thr Asn Ile His Ile Arg Asp Lys Leu Ala  
 420 425 430  
 Ala Ile Lys Leu Gly Arg Tyr Gly Glu Asp Leu Leu Phe Tyr Leu Tyr  
 435 440 445  
 Tyr Met Asn Gly Gly Asp Val Leu Gln Leu Leu Ala Ala Val Glu Leu  
 450 455 460  
 Phe Asn Arg Asp Trp Arg Tyr His Lys Glu Glu Arg Val Trp Ile Thr  
 465 470 475 480  
 Arg Ala Pro Gly Met Glu Pro Thr Met Lys Thr Asn Thr Tyr Glu Arg  
 485 490 495  
 Gly Thr Tyr Tyr Phe Phe Asp Cys Leu Asn Trp Arg Lys Val Ala Lys  
 500 505 510  
 Glu Phe His Leu Glu Tyr Asp Lys Leu Glu Glu Arg Pro His Leu Pro  
 515 520 525  
 Ser Thr Phe Asn Tyr Asn Pro Ala Gln Gln Ala Phe  
 530 535 540

<210> 729  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 729  
 Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser  
 1 5 10 15  
 Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu  
 20 25 30  
 Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu  
 35 40 45  
 Phe His  
 50

<210> 730  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens  
 <220>

<221> SITE  
 <222> (28)  
 <223> Xaa equals any amino acid

<400> 730  
 Met His Cys Phe Phe Leu Trp Leu Leu Leu Phe Gly Leu Leu Gly Ile  
           1                  5                          10                          15  
 Ser Gly Phe Leu Gly Tyr Ile Ser Val Ala Gly Xaa Ser Ile Tyr Val  
                   20                          25                          30  
 Met Trp Lys Val Glu Lys Glu Met Asn Thr  
           35                          40

<210> 731  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 731  
 Met Leu Phe Phe Leu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser  
           1                  5                          10                          15  
 Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Phe Ser Leu Phe Pro  
                   20                          25                          30  
 His Leu Ser Ala Cys Leu Leu Pro Ser Leu Pro Ser Pro Pro Phe Pro  
           35                          40                          45  
 Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe  
           50                          55                          60  
 Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Ala Phe Phe Pro Ser Phe  
           65                          70                          75                          80  
 Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln  
                   85                          90                          95  
 Ser Thr Ser

<210> 732  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 732  
 Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile  
           1                  5                          10                          15  
 Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu  
                   20                          25                          30  
 Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly  
           35                          40                          45  
 Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser



50 55 60

Leu His  
65

<210> 733  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 733  
Met Gln Met Phe Thr Val Ser Leu Leu Leu Ser Leu Leu Leu Arg Ser  
1 5 10 15  
Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr  
20 25 30

Gly Gly

<210> 734  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 734  
Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala  
1 5 10 15  
Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile  
20 25 30  
Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe  
35 40 45  
Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val  
50 55 60  
Leu Ser Pro Gly Phe His Ser Ala  
65 70

<210> 735  
<211> 250  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any amino acid

<400> 735  
Met Phe Leu Ala Thr Leu Ser Phe Leu Leu Pro Phe Ala His Pro Phe  
1 5 10 15

Gly Thr Val Ser Cys Glu Tyr Met Leu Gly Ser Pro Leu Ser Ser Leu  
                   20                  25                  30  
 Ala Gln Val Asn Leu Ser Pro Phe Ser His Pro Lys Val His Met Asp  
                   35                  40                  45  
 Pro Asn Tyr Cys His Pro Ser Thr Ser Leu His Leu Cys Ser Leu Ala  
                   50                  55                  60  
 Trp Ser Phe Thr Arg Leu Leu His Pro Pro Leu Ser Pro Gly Ile Ser  
                   65                  70                  75                  80  
 Gln Val Val Lys Asp His Val Thr Lys Pro Thr Ala Met Ala Gln Gly  
                   85                  90                  95  
 Arg Val Ala His Leu Ile Glu Trp Lys Gly Trp Ser Lys Pro Ser Asp  
                   100                  105                  110  
 Ser Xaa Ala Ala Leu Glu Ser Ala Phe Ser Ser Tyr Ser Asp Leu Ser  
                   115                  120                  125  
 Glu Gly Glu Gln Glu Ala Arg Phe Ala Ala Gly Val Ala Glu Gln Phe  
                   130                  135                  140  
 Ala Ile Ala Glu Ala Lys Leu Arg Ala Trp Ser Ser Val Asp Gly Glu  
                   145                  150                  155                  160  
 Asp Ser Thr Asp Asp Ser Tyr Asp Glu Asp Phe Ala Gly Gly Met Asp  
                   165                  170                  175  
 Thr Gly Glu Gly His Pro Gly Leu Gly Leu Trp Trp Thr His Leu Ile  
                   180                  185                  190  
 Asp Leu Gly Ile Leu Ser Glu Pro His Pro Glu His Ser Gln Pro Leu  
                   195                  200                  205  
 Gln Gly Glu Gly Glu Gly Gln Thr Gln Ser Arg Gln Ala Trp Thr Leu  
                   210                  215                  220  
 Gln Gly Gln Glu Gly Cys Pro His Ser Trp Val Gly Asn Glu Gln Thr  
                   225                  230                  235                  240  
 Glu Met Asp Ser Phe Leu Ser His Arg Cys  
                   245                  250

&lt;210&gt; 736

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 736

Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu  
                   1                  5                  10                  15  
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr  
                   20                  25                  30  
 Pro Leu Pro Asp Glu Ser Glu His Phe  
                   35                  40

<210> 737  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 737  
 Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile  
 1 5 10 15  
 Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His  
 20 25 30  
 Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser  
 35 40 45  
 Pro Val Cys Ala Val  
 50

<210> 738  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 738  
 Met Glu Ala Val Val Phe Val Phe Ser Leu Leu Asp Cys Cys Ala Leu  
 1 5 10 15  
 Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys  
 20 25 30  
 Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys Leu Asn Lys Trp Val  
 35 40 45  
 Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Leu Met  
 50 55 60  
 Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp  
 65 70 75 80  
 Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe  
 85 90 95  
 Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His Met Lys  
 100 105 110  
 Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys Phe Phe Met Tyr  
 115 120 125  
 Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp  
 130 135

<210> 739  
 <211> 147  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 739

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Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala Leu Leu Leu
 1             5             10             15

Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp His Phe His
 20             25             30

Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg Tyr Leu Pro
 35             40             45

Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser Lys Asp
 50             55             60

Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys Glu Gln
 65             70             75             80

Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly Arg Thr
 85             90             95

Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe Gln Glu
100             105             110

Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile Ser Thr
115             120             125

Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys Leu Glu
130             135             140

Gly Phe His
145

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&lt;210&gt; 740

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 740

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Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu
 1             5             10             15

Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu
 20             25             30

Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln
 35             40             45

Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr
 50             55             60

Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly
 65             70             75             80

Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg
 85             90             95

Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln
100             105             110

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Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln  
 115 120 125

Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe  
 130 135 140

Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu  
 145 150 155

<210> 741  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 741  
 Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe  
 1 5 10 15

Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu  
 20 25 30

Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly  
 35 40 45

Cys Cys Gln Arg Ala Pro Asp Asn Cys Glu Ser His Cys Ala Glu Lys  
 50 55 60

Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr  
 65 70 75 80

Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn  
 85 90 95

Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg  
 100 105 110

Gln Lys Leu Ala Lys Lys Met Phe Phe  
 115 120

<210> 742  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 742  
 Met Leu Ile Ser Val Asp Ser Asn Val Pro Val Val Phe Leu Leu Leu  
 1 5 10 15

Phe Ile Leu Val Ile Leu Cys His Met Glu Cys Lys Gly His Ile Tyr  
 20 25 30

Ile Cys Val Cys Val Cys Val Tyr Met Tyr Ile Phe Lys Asn Ile  
 35 40 45

<210> 743  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 743  
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
           1                  5                  10                  15  
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
                   20                  25                  30  
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
                   35                  40                  45  
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
           50                  55                  60  
 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu  
           65                  70                  75                  80  
 Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val  
                   85                  90                  95  
 Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe  
                   100                  105                  110  
 Ser Ser Gln Val Leu Leu Pro Leu Leu  
           115                  120

<210> 744  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any amino acid

<400> 744  
 Met Ile Leu Phe Asp Leu Thr Phe Phe Leu Phe Ala Pro Arg Ile Leu  
           1                  5                  10                  15  
 Ala Ser Gly Ala Cys Ser Cys Ser Ile Tyr Pro Lys Ile Thr Leu Pro  
                   20                  25                  30  
 Thr Lys Tyr Phe Ala Phe Ile Ile Xaa Thr Ser Phe  
           35                  40

<210> 745  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 745  
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly

1                      5                      10                      15  
 Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly  
                          20                                      25                                      30  
 Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys  
                          35                                      40                                      45  
 Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys  
                          50                                      55                                      60  
 Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe Arg Leu Leu Trp Pro  
                          65                                      70                                      75                                      80  
 Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe Val Leu Gly Leu Leu Ser  
    85                                      90                                      95  
 Gly Phe Leu Val Trp Arg Arg Cys Arg Arg Arg Glu Lys Phe Thr Thr  
    100                                      105                                      110  
 Pro Ile Glu Glu Thr Gly Gly Glu Gly Cys Pro Ala Val Ala Leu Ile  
    115                                      120                                      125

Gln

<210> 746  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 746  
 Met Val Ser Phe His Phe Gln Cys Thr Ser Tyr Phe Val Arg Leu Phe  
                          1                                      5                                      10                                      15  
 Phe Gln Leu Gln Leu Phe Val Gly Leu Val Ile Val Leu Ala Leu Leu  
    20                                      25                                      30  
 Ile Ser His Ser Leu Thr Tyr Ser Phe His Lys His Leu  
    35                                      40                                      45

<210> 747  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any amino acid

<400> 747  
 Met Ala Val Leu Leu Ile Thr Ile Leu Leu Phe Leu Cys Leu Gly Tyr  
                          1                                      5                                      10                                      15  
 Tyr Arg Val Ile Thr Glu Ile Ser Arg Lys Thr Pro Ala Cys Arg Met  
    20                                      25                                      30

Phe Thr Ser Ser Leu Ser Ser Trp Tyr Ile Met Arg Lys Leu Tyr Asp  
           35                          40                          45  
 Thr Pro Gly Glu Val Phe Leu Ser His Ala Ile Val Xaa Phe Leu Lys  
           50                          55                          60

<210> 748  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any amino acid

<400> 748  
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe  
   1                          5                          10                          15  
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp  
           20                          25                          30  
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro  
           35                          40                          45  
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro  
           50                          55                          60  
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser  
   65                          70                          75                          80  
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala  
                           85                          90                          95  
 Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg  
           100                          105                          110  
 Gly Trp Thr Arg  
           115

<210> 749  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 749  
 Met Pro Trp His Val Cys Phe Phe Leu Ser Gly Leu Leu Phe Pro Ser  
   1                          5                          10                          15  
 Pro Gln Thr Ser Leu Gln His Leu Cys Leu Leu Thr Ser Leu Ile Leu  
           20                          25                          30



Gly Val Thr Ile Ser Ala Tyr Glu His Ala Ile Asn Leu Pro Ser Leu  
                   35                  40                  45

Gln Asn Ser Leu Leu Thr Ser His Pro Ser Val Ala Ala Leu Ser Leu  
           50                  55                  60

Leu Ser Ser Ser Leu Gln Gln Asn Ser Leu Lys Glu Leu Leu Ala Gly  
   65                  70                  75                  80

His Ser Gly Ser Leu Leu  
                   85

<210> 750  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 750  
 Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn  
   1                  5                  10                  15

Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser  
           20                  25                  30

Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser  
           35                  40                  45

Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr  
   50                  55                  60

<210> 751  
 <211> 352  
 <212> PRT  
 <213> Homo sapiens

<400> 751  
 Met Leu Cys Arg Leu Cys Trp Leu Val Ser Tyr Ser Leu Ala Val Leu  
   1                  5                  10                  15

Leu Leu Gly Cys Leu Leu Phe Leu Arg Lys Ala Ala Lys Pro Ala Glu  
           20                  25                  30

Thr Pro Arg Pro Thr Ser Leu Ser Gly Ala Pro Pro Thr Pro Arg His  
           35                  40                  45

Ser Arg Cys Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu  
   50                  55                  60

Pro Ser Arg His Arg Leu Phe Leu Thr Tyr Arg His Cys Arg Asn Phe  
   65                  70                  75                  80

Ser Ile Leu Leu Glu Pro Ser Gly Cys Ser Lys Asp Thr Phe Leu Leu  
           85                  90                  95

Leu Ala Ile Lys Ser Gln Pro Gly His Val Glu Arg Arg Ala Ala Ile  
           100                  105                  110

Arg Ser Thr Trp Gly Arg Trp Gly Asp Gly Leu Gly Pro Ala Leu Lys  
 115 120 125  
 Leu Val Phe Leu Leu Gly Val Ala Gly Ser Ala Pro Pro Ala Gln Leu  
 130 135 140  
 Leu Ala Tyr Glu Ser Arg Glu Phe Asp Asp Ile Leu Gln Trp Asp Phe  
 145 150 155 160  
 Thr Glu Asp Phe Phe Asn Leu Thr Leu Lys Glu Leu His Leu Gln Arg  
 165 170 175  
 Trp Val Val Ala Ala Cys Pro Gln Ala His Phe Met Leu Lys Gly Asp  
 180 185 190  
 Asp Asp Val Phe Val His Val Pro Asn Val Leu Glu Phe Leu Asp Gly  
 195 200 205  
 Trp Asp Pro Ala Gln Asp Leu Leu Val Gly Asp Val Ile Arg Gln Ala  
 210 215 220  
 Leu Pro Asn Arg Asn Thr Lys Val Lys Tyr Phe Ile Pro Pro Ser Met  
 225 230 235 240  
 Tyr Arg Ala Thr His Tyr Pro Pro Tyr Ala Gly Gly Gly Gly Tyr Val  
 245 250 255  
 Met Ser Arg Ala Thr Val Arg Arg Leu Gln Ala Ile Met Glu Asp Ala  
 260 265 270  
 Glu Leu Phe Pro Ile Asp Asp Val Phe Val Gly Met Cys Leu Arg Arg  
 275 280 285  
 Leu Gly Leu Ser Pro Met His His Ala Gly Phe Lys Thr Phe Gly Ile  
 290 295 300  
 Arg Arg Pro Leu Asp Pro Leu Asp Pro Cys Leu Tyr Arg Gly Leu Leu  
 305 310 315 320  
 Leu Val His Arg Leu Ser Pro Leu Glu Met Trp Thr Met Trp Ala Leu  
 325 330 335  
 Val Thr Asp Glu Gly Leu Lys Cys Ala Ala Gly Pro Ile Pro Gln Arg  
 340 345 350

&lt;210&gt; 752

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 752

Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile  
 1 5 10

<210> 753  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 753  
 Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg  
           1                  5                  10                  15  
 Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser Ser Thr Ile  
                   20                  25                  30  
 Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His  
           35                  40                  45

<210> 754  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 754  
 Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu  
           1                  5                  10                  15  
 Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp  
                   20                  25                  30  
 Phe Ile Leu Thr Lys Tyr  
           35

<210> 755  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 755  
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala  
           1                  5                  10                  15  
 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
                   20                  25                  30  
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
           35                  40                  45

<210> 756  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 756  
 Met Pro Cys His Gly Leu Leu Ala Gln Gly Leu Ser Leu Ala Pro Leu  
           1                  5                  10                  15  
 Pro Pro Trp Ala Leu Cys Cys Val Gly Val Ser Arg Ala Leu Gln Asp

20 25 30

Ile Gln Gln His Pro Arg Pro Pro Ala Pro Cys Gln  
 35 40

<210> 757  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 757  
 Met Val Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro  
 1 5 10 15  
 Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile  
 20 25 30  
 Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala  
 35 40 45  
 Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu  
 50 55 60  
 Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser  
 65 70

<210> 758  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 758  
 Met Ser Lys Ala Arg Phe Pro Phe Leu Ala Phe Pro Pro Leu Val Leu  
 1 5 10 15  
 Cys Leu Glu His Ser Gln Ala Ser Leu Gly Thr Arg Leu Pro Val Val  
 20 25 30  
 Thr Pro Ser Ser Leu Pro Ser Ser Cys Lys Gly Ile Gly Cys Gly Phe  
 35 40 45  
 Leu Glu Leu Gly  
 50

<210> 759  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 759  
 Met Leu Trp Thr Leu Thr Phe Phe Leu Leu Gln Arg Ser Leu Thr Ser  
 1 5 10 15  
 Pro Trp Leu Phe Gly Leu Leu Phe Leu Gly Ser Ser Asn Thr Ala Val  
 20 25 30

Cys Cys Phe Leu Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg Gly  
           35                          40                          45  
 Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn Val  
           50                          55                          60  
 Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro Arg  
           65                          70                          75                          80  
 Val Pro Val Val Arg Leu Ser Gly Arg Ser Leu Gly Trp Leu Ser Val  
                           85                          90                          95  
 Arg Thr Ser His Leu Ile Leu Met Gly Leu Cys Lys Ile Leu Ser Val  
                           100                          105                          110  
 Lys Leu Thr Phe Phe His Asp Ser Glu Tyr Thr Leu Ile Ile Gly Asn  
           115                          120                          125  
 Trp Lys Ile  
           130

<210> 760  
 <211> 549  
 <212> PRT  
 <213> Homo sapiens

<400> 760  
 Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys  
       1                          5                          10                          15  
 Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro  
           20                          25                          30  
 Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu  
           35                          40                          45  
 Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu  
           50                          55                          60  
 Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu  
           65                          70                          75                          80  
 Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp  
                           85                          90                          95  
 Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu  
           100                          105                          110  
 Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg  
           115                          120                          125  
 Gly Leu Lys Ser Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln  
           130                          135                          140  
 Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu Asp Ser Leu Thr Asn Val  
           145                          150                          155                          160  
 Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu

165										170										175									
Val	Glu	Trp	Leu	Gly	His	Thr	Asn	Ala	Thr	Val	Glu	Asp	Ile	Tyr	Cys														
			180					185					190																
Glu	Gly	Pro	Pro	Glu	Tyr	Lys	Lys	Arg	Lys	Ile	Asn	Ser	Leu	Ser	Ser														
		195					200					205																	
Lys	Asp	Phe	Asp	Cys	Ile	Ile	Thr	Glu	Phe	Ala	Lys	Ser	Gln	Asp	Leu														
	210					215					220																		
Pro	Tyr	Gln	Ser	Leu	Ser	Ile	Asp	Thr	Phe	Ser	Tyr	Leu	Asn	Asp	Glu														
	225				230						235				240														
Tyr	Val	Val	Ile	Ala	Gln	Pro	Phe	Thr	Gly	Lys	Cys	Ile	Phe	Leu	Glu														
				245					250					255															
Trp	Asp	His	Val	Glu	Lys	Thr	Phe	Arg	Asn	Tyr	Asp	Asn	Ile	Thr	Gly														
			260					265					270																
Thr	Ser	Thr	Val	Val	Cys	Lys	Pro	Ile	Val	Ile	Glu	Thr	Gln	Leu	Tyr														
		275					280					285																	
Val	Ile	Val	Ala	Gln	Leu	Phe	Gly	Gly	Ser	His	Ile	Tyr	Lys	Arg	Asp														
	290					295					300																		
Ser	Phe	Ala	Asn	Lys	Phe	Ile	Lys	Ile	Gln	Asp	Ile	Glu	Ile	Leu	Lys														
	305				310				315					320															
Ile	Arg	Lys	Pro	Asn	Asp	Ile	Glu	Thr	Phe	Lys	Ile	Glu	Asn	Asn	Trp														
			325					330						335															
Tyr	Phe	Val	Val	Ala	Asp	Ser	Ser	Lys	Ala	Gly	Phe	Thr	Thr	Ile	Tyr														
		340						345					350																
Lys	Trp	Asn	Gly	Asn	Gly	Phe	Tyr	Ser	His	Gln	Ser	Leu	His	Ala	Trp														
		355					360					365																	
Tyr	Arg	Asp	Thr	Asp	Val	Glu	Tyr	Leu	Glu	Ile	Val	Arg	Thr	Pro	Gln														
	370					375					380																		
Thr	Leu	Arg	Thr	Pro	His	Leu	Ile	Leu	Ser	Ser	Ser	Ser	Gln	Arg	Pro														
	385				390						395				400														
Val	Ile	Tyr	Gln	Trp	Asn	Lys	Ala	Thr	Gln	Leu	Phe	Thr	Asn	Gln	Thr														
			405						410					415															
Asp	Ile	Pro	Asn	Met	Glu	Asp	Val	Tyr	Ala	Val	Lys	His	Phe	Ser	Val														
			420					425					430																
Lys	Gly	Asp	Val	Tyr	Ile	Cys	Leu	Thr	Arg	Phe	Ile	Gly	Asp	Ser	Lys														
		435					440					445																	
Val	Met	Lys	Trp	Gly	Gly	Ser	Ser	Phe	Gln	Asp	Ile	Gln	Arg	Met	Pro														
	450					455					460																		
Ser	Arg	Gly	Ser	Met	Val	Phe	Gln	Pro	Leu	Gln	Ile	Asn	Asn	Tyr	Gln														
	465				470						475				480														
Tyr	Ala	Ile	Leu	Gly	Ser	Asp	Tyr	Ser	Phe	Thr	Gln	Val	Tyr	Asn	Trp														
			485						490					495															

Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln  
                   500                  505                  510

Ala Pro Arg Ser Phe Thr His Val Ser Ile Asn Lys Arg Asn Phe Leu  
                   515                  520                  525

Phe Ala Ser Ser Phe Lys Gly Asn Thr Gln Ile Tyr Lys His Val Ile  
                   530                  535                  540

Val Asp Leu Ser Ala  
 545

<210> 761  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 761  
 Met Leu Leu Gly Phe Leu Cys Leu Trp Tyr Gln Val Tyr Val Cys Met  
   1                  5                  10                  15

Tyr Val Cys Thr Tyr Leu Phe Ile Tyr Leu Leu Phe Ser Leu Phe Ser  
                   20                  25                  30

Leu Pro His Met Ile Cys Lys Lys Ser Val Lys Phe Ile Met Ser Ser  
                   35                  40                  45

Pro Lys Pro Pro Ser Gly  
                   50

<210> 762  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 762  
 Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp  
   1                  5                  10                  15

Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln  
                   20                  25                  30

Glu Lys

<210> 763  
 <211> 519  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (205)  
 <223> Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (207)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (213)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (225)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 763

Met Gln Gly Gly Gln Arg Pro His Leu Leu Leu Leu Leu Ala Val  
 1 5 10 15

Cys Leu Gly Ala Gln Ser Arg Asn Gln Glu Glu Arg Leu Leu Ala Asp  
 20 25 30

Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro Ala Glu Arg Asp Ser  
 35 40 45

Asp Val Val Asn Val Ser Leu Lys Leu Thr Leu Thr Asn Leu Ile Ser  
 50 55 60

Leu Asn Glu Arg Glu Glu Ala Leu Thr Thr Asn Val Trp Ile Glu Met  
 65 70 75 80

Gln Trp Cys Asp Tyr Arg Leu Arg Trp Asp Pro Lys Asp Tyr Glu Gly  
 85 90 95

Leu Trp Ile Leu Arg Val Pro Ser Thr Met Val Trp Arg Pro Asp Ile  
 100 105 110

Val Leu Glu Asn Asn Val Asp Gly Val Phe Glu Val Ala Leu Tyr Cys  
 115 120 125

Asn Val Leu Val Ser Pro Asp Gly Cys Ile Tyr Trp Leu Pro Pro Ala  
 130 135 140

Ile Phe Arg Ser Ser Cys Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp  
 145 150 155 160

Trp Gln Asn Cys Ser Leu Ile Phe Gln Ser Gln Thr Tyr Ser Thr Ser  
 165 170 175

Glu Ile Asn Leu Gln Leu Ser Gln Glu Asp Gly Gln Ala Ile Glu Trp  
 180 185 190

Ile Phe Ile Asp Pro Glu Ala Phe Thr Glu Asn Gly Xaa Trp Xaa Ile  
 195 200 205

Arg His Arg Pro Xaa Lys Met Leu Leu Asp Ser Val Ala Pro Ala Glu  
 210 215 220

Xaa Ala Gly His Gln Lys Val Val Phe Tyr Leu Leu Ile Gln Arg Lys  
 225 230 235 240



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<210> 764
<211> 68
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 764

Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys  
 1 5 10 15

Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu  
 20 25 30

Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys  
 35 40 45

Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp  
 50 55 60

Ser Leu Gly Phe  
 65

&lt;210&gt; 765

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 765

Met Leu Ile Ala Lys Leu Pro Val Leu Glu Ser Ile Cys Phe Phe Met  
 1 5 10 15

Leu Phe Leu Asn Pro Leu Val Ile Leu Leu Ser Leu Asn Asn Ala Leu  
 20 25 30

Pro Leu Val Phe His Pro His Ser Glu Phe Leu Glu Asp His Asn Arg  
 35 40 45

Gly Asp Thr Leu Pro Ser Ile Val  
 50 55

&lt;210&gt; 766

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 766

Met Met Ser Ser Cys Leu Val Val Val Ile Thr Leu Arg Ala Tyr Phe  
 1 5 10 15

Ser Trp Leu Gln Ala Ile Arg Ser Gln Val Val Trp Ser Arg Met Lys  
 20 25 30

Arg Leu Gln Ser Ala Ser Arg Gln Ser Gly Leu Ser Ile Pro Arg Ser  
 35 40 45

Glu Met Ser Ala Leu His Arg Leu Gln Asp Trp Ser Asp Lys Ser His  
 50 55 60

Ile Leu Phe Phe Ile Phe Leu Pro Arg Val Cys Arg Phe Pro Leu  
 65 70 75

<210> 767  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<400> 767  
 Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly Ile Ala Gln  
           1                  5                  10                  15  
 Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly Leu Gly Ser  
                   20                  25                  30  
 Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg Thr Pro Ile  
                   35                  40                  45  
 Pro Cys Ser Pro Pro Ala Pro Ala Ala Ala Cys Leu Gly Ser Gly His  
           50                  55                  60  
 Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro Ala Asn Leu  
           65                  70                  75                  80  
 Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe Trp Ser Ser  
                   85                  90                  95  
 Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe Arg Asp Leu  
                   100                  105                  110  
 Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe Gln Lys Thr  
           115                  120                  125  
 Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val Ala Thr Pro  
           130                  135                  140  
 Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala Ala Ala Asn  
           145                  150                  155                  160  
 Trp Cys

<210> 768  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 768  
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Val Leu Leu  
           1                  5                  10                  15  
 Thr Asp Arg Thr Leu Ser Cys Arg Ser Val Gly Val Pro Cys Asn Val  
                   20                  25                  30  
 Arg Cys Gln Cys Ala Pro Ala Gly Gly Cys Leu Pro Val Arg Leu Leu  
           35                  40                  45  
 Ala Gly Gln Gly Ser Gly Thr His Leu Arg Arg Gln Ser Ala Arg Ser  
           50                  55                  60  
 Gln Ile Ser Ser Cys Met Leu Gly Glu Pro Leu Leu Ser Ser Lys Leu

<400> 770  
Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val  
1 5 10 15

Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met  
                   20                  25                  30

Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu  
           35                  40                  45

<210> 771

<211> 79

<212> PRT

<213> Homo sapiens

<400> 771

Met Thr Leu Met Cys Leu Cys Leu Ser Val Thr Val Leu His Pro Leu  
   1                  5                  10                  15

Arg Ser Lys Glu Arg Leu Ser Gly Thr Phe Cys Gly Tyr Ser Ser Ser  
           20                  25                  30

Trp Cys Ser Pro Ala Ser Glu Ser Ser Ser Pro Gly Ser Leu Leu Thr  
           35                  40                  45

Cys Ala Ala Ser Gly Ser His Pro Asp Cys Pro Leu Ser Gln Arg Leu  
           50                  55                  60

Leu Gly Val Gln Leu Ala Ala Leu Gly Arg Pro Gln Gly Leu Phe  
   65                  70                  75

<210> 772

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any amino acid

<400> 772

Met Arg Pro Gly Ser Phe Ser Phe Ile Ala Phe Leu Ala Thr Glu Val  
   1                  5                  10                  15

Ser Ser Cys Phe Pro Gly Arg Pro Asp Cys Xaa Thr Gly Met Trp Leu  
           20                  25                  30

Leu Gln Leu Gln Lys Lys Gln Arg Thr Leu Leu Ala Met Ala Pro Arg  
           35                  40                  45

Arg

<210> 773

<211> 292

<212> PRT

<213> Homo sapiens

&lt;400&gt; 773

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Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala
 1              5              10              15

Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val
 20              25              30

Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn
 35              40              45

Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu
 50              55              60

Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu
 65              70              75              80

Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu
 85              90              95

Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln
100              105              110

Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr
115              120              125

Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala
130              135              140

Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu
145              150              155              160

Ile Glu Thr Thr Arg Gly Leu Leu Pro Gly Ala Gly Gly Thr Gln Arg
165              170              175

Leu Pro Arg Cys Leu Gly Val Ala Leu Ala Lys Glu Leu Ile Phe Thr
180              185              190

Gly Arg Arg Leu Ser Gly Thr Glu Ala His Val Leu Gly Leu Val Asn
195              200              205

His Ala Val Ala Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala
210              215              220

Arg Ala Leu Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg
225              230              235              240

Leu Gly Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser
245              250              255

Gly Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg
260              265              270

Asp Arg Leu Glu Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro Lys
275              280              285

Phe Val Gly Lys
290

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<210> 774  
 <211> 377  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (213)  
 <223> Xaa equals any amino acid

<400> 774  
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser  
     1                    5                    10                    15  
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile  
                     20                    25                    30  
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr  
             35                    40                    45  
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys  
             50                    55                    60  
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu  
     65                    70                    75                    80  
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser  
                     85                    90                    95  
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr  
                     100                    105                    110  
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp  
     115                    120                    125  
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu  
     130                    135                    140  
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp  
     145                    150                    155                    160  
 Ile Lys Trp Xaa Ser Arg Trp Asp Thr Tyr Leu Thr Met Ser Asp Val  
                     165                    170                    175  
 Gln Ile His Trp Phe Ser Ile Ile Asn Ser Val Val Val Val Phe Phe  
                     180                    185                    190  
 Leu Ser Gly Ile Leu Ser Met Ile Ile Ile Arg Thr Leu Arg Lys Asp  
             195                    200                    205  
 Ile Ala Asn Tyr Xaa Lys Glu Asp Asp Ile Glu Asp Thr Met Glu Glu  
     210                    215                    220  
 Ser Gly Trp Lys Leu Val His Gly Asp Val Phe Arg Pro Pro Pro Val  
     225                    230                    235                    240

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<210> 775
<211> 121
<212> PRT
<213> Homo sapiens
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<400> 775
Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met
  1                               5                               10                               15

Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg
      20                               25                               30

Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr
      35                               40                               45

Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met
      50                               55                               60

Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg
      65                               70                               75                               80

Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu
      85                               90                               95

Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg
      100                               105                               110

Phe Tyr Val Ser Val Lys Val Phe Lys
      115                               120

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<210> 776  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 776  
 Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser  
           1                  5                  10                  15  
 Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr  
                   20                  25                  30  
 Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr  
                   35                  40                  45  
 Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe  
           50                  55                  60  
 Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro  
           65                  70                  75                  80  
 Ala Val Ile Ser

<210> 777  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any amino acid

<400> 777  
 Met Leu Phe Leu Val Phe Ser Leu Xaa Leu Leu Lys Pro Leu Xaa Phe  
           1                  5                  10                  15  
 Phe Xaa Phe Gly Gly Xaa Arg Ile Val Asn Ile Xaa Xaa Xaa Gln Xaa  
                   20                  25                  30  
 Gln His His Ala Glu Gly Lys Xaa Gly Ser  
           35                  40

<210> 778  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 778  
 Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile  
           1                  5                  10                  15  
 Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp  
                   20                  25                  30  
 Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp  
           35                  40                  45  
 Arg Phe  
       50

<210> 779  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 779  
 Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg  
           1                  5                  10                  15  
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg  
                   20                  25                  30  
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala  
           35                  40                  45

Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr  
 50 55 60

Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser  
 65 70 75 80

Lys Ser

<210> 780  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any amino acid

<400> 780  
 Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu  
 1 5 10 15  
 Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro  
 20 25 30  
 Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Thr Ser  
 35 40 45  
 Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala  
 50 55 60  
 Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly  
 65 70 75 80  
 Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly  
 85 90 95  
 Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu  
 100 105 110

<210> 781  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 781

Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile Ser Phe Leu  
 1 5 10 15

Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser  
 20 25 30

Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala  
 35 40

&lt;210&gt; 782

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 782

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln  
 1 5 10 15

Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser  
 20 25 30

Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln  
 35 40 45

Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly  
 50 55 60

Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe  
 65 70 75 80

Val Lys Arg Glu Ser Gln Ala Tyr Ala  
 85

&lt;210&gt; 783

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 783

Met Leu Phe Phe Cys Leu Leu Met Lys Met Leu Gly Pro Ser Arg Leu  
 1 5 10 15

Pro Phe Leu Ala Leu Thr Leu Cys Arg Phe Ile Leu Tyr Phe Gln Phe  
 20 25 30

Cys Tyr Leu Ile Ser Asp Ser Ser Pro Asp His Ser  
 35 40

&lt;210&gt; 784

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

Met Ser His Cys Thr Trp Pro Val Cys Leu Phe Cys Leu Val Pro Pro  
 1 5 10 15

Pro Met Gly Asp Leu Lys Glu Val Cys Leu Pro His Arg Cys Pro Gly  
 20 25 30

Arg Thr Ala Cys Cys Ser Tyr Ser Glu Pro His Leu Gln Thr Glu Glu  
 35 40 45

Asp Arg Arg Thr Leu Ile Cys  
 50 55

&lt;210&gt; 785

&lt;211&gt; 508

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro  
 20 25 30

Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp  
 35 40 45

Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser  
 50 55 60

Val Gln Pro Val Pro Arg Phe Arg Gln Glu Leu Phe Arg Met Met Ala  
 65 70 75 80

Val Ala Ala Asp Thr Leu Gln Arg Leu Gly Ala Arg Val Ala Ser Val  
 85 90 95

Asp Met Gly Pro Gln Gln Leu Pro Asp Gly Gln Ser Leu Pro Ile Pro  
 100 105 110

Pro Val Ile Leu Ala Glu Leu Gly Ser Asp Pro Thr Lys Gly Thr Val  
 115 120 125

Cys Phe Tyr Gly His Leu Asp Val Gln Pro Ala Asp Arg Gly Asp Gly  
 130 135 140  
 Trp Leu Thr Asp Pro Tyr Val Leu Thr Glu Val Asp Gly Lys Leu Tyr  
 145 150 155 160  
 Gly Arg Gly Ala Thr Asp Asn Lys Gly Pro Val Leu Ala Trp Ile Asn  
 165 170 175  
 Ala Val Ser Ala Phe Arg Ala Leu Glu Gln Asp Leu Pro Val Asn Ile  
 180 185 190  
 Lys Phe Ile Ile Glu Gly Met Glu Glu Ala Gly Ser Val Ala Leu Glu  
 195 200 205  
 Glu Leu Val Glu Lys Glu Lys Asp Arg Phe Phe Ser Gly Val Asp Tyr  
 210 215 220  
 Ile Val Ile Ser Asp Asn Leu Trp Ile Ser Gln Arg Lys Pro Ala Ile  
 225 230 235 240  
 Thr Tyr Gly Thr Arg Gly Asn Ser Tyr Phe Met Val Glu Val Lys Cys  
 245 250 255  
 Arg Asp Gln Asp Phe His Ser Gly Thr Phe Gly Gly Ile Leu His Glu  
 260 265 270  
 Pro Met Ala Asp Leu Val Ala Leu Leu Gly Ser Leu Val Asp Ser Ser  
 275 280 285  
 Gly His Ile Leu Val Pro Gly Ile Tyr Asp Glu Val Val Pro Leu Thr  
 290 295 300  
 Glu Glu Glu Ile Asn Thr Tyr Lys Ala Ile His Leu Asp Leu Glu Glu  
 305 310 315 320  
 Tyr Arg Asn Ser Ser Arg Val Glu Lys Phe Leu Phe Asp Thr Lys Glu  
 325 330 335  
 Glu Ile Leu Met His Leu Trp Arg Tyr Pro Ser Leu Ser Ile His Gly  
 340 345 350  
 Ile Glu Gly Ala Phe Asp Glu Pro Gly Thr Lys Thr Val Ile Pro Gly  
 355 360 365  
 Arg Val Ile Gly Lys Phe Ser Ile Arg Leu Val Pro His Met Asn Val  
 370 375 380  
 Ser Ala Val Glu Lys Gln Val Thr Arg His Leu Glu Asp Val Phe Ser  
 385 390 395 400  
 Lys Arg Asn Ser Ser Asn Lys Met Val Val Ser Met Thr Leu Gly Leu  
 405 410 415  
 His Pro Trp Ile Ala Asn Ile Asp Asp Thr Gln Tyr Leu Ala Ala Lys  
 420 425 430  
 Arg Ala Ile Arg Thr Val Phe Gly Thr Glu Pro Asp Met Ile Arg Asp  
 435 440 445

Gly Ser Thr Ile Pro Ile Ala Lys Met Phe Gln Glu Ile Val His Lys  
 450 455 460

Ser Val Val Leu Ile Pro Leu Gly Ala Val Asp Asp Gly Glu His Ser  
 465 470 475 480

Gln Asn Glu Lys Ile Asn Arg Trp Asn Tyr Ile Glu Gly Thr Lys Leu  
 485 490 495

Phe Ala Ala Phe Phe Leu Glu Met Ala Gln Leu His  
 500 505

<210> 786  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 786  
 Met Cys Phe Thr Gln Phe Ser Arg Ile Phe Phe Leu Thr Ser Ser Leu  
 1 5 10 15

Thr Leu Ala Ala Cys Ala Asn His Ile Leu Ala Ala Tyr Ser Ser Ser  
 20 25 30

Leu Ala Asp Arg Cys Val Gly Glu Lys Ser Leu Ile Val Ile Val Pro  
 35 40 45

Glu Arg Ser Phe Gln Thr His Phe  
 50 55

<210> 787  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any amino acid

<400> 787  
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
 1 5 10 15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys  
 20 25 30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
 35 40 45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln  
 50 55 60

Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly  
 65 70 75

<210> 788  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 788  
 Met Trp Trp Trp Leu Met Leu Ala Thr Thr Ala Leu Lys Pro Ile Ala  
           1                  5                  10                  15  
 Thr Ser Ser Ser Cys Thr Glu Ala Leu Pro Gly Leu Trp Arg Asp Arg  
                   20                  25                  30  
 His Trp Gly Asp Trp Thr Arg Gly Ser Gly Trp Glu Val Gly Gln Thr  
           35                  40                  45  
 Trp Gln His  
           50

<210> 789  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 789  
 Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr  
           1                  5                  10                  15  
 Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly  
                   20                  25                  30  
 Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr  
           35                  40

<210> 790  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<400> 790  
 Met Ala Cys Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Leu Arg  
           1                  5                  10                  15  
 His Leu Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn  
                   20                  25                  30  
 Phe Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val  
           35                  40                  45  
 Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu His  
           50                  55                  60  
 Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu Leu Leu  
           65                  70                  75                  80  
 Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile Asn Lys Phe  
                   85                  90                  95



Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala Pro Ala Ala Ile  
 100 105 110  
 Ser Phe Leu Gln Lys His Ala Asp Pro Leu His Asp Leu Ser Phe Asp  
 115 120 125  
 Asn Ser Asp Leu Val Met Leu Lys Ser Leu Leu Ala Gly Leu Ser Leu  
 130 135 140  
 Pro Ser Arg Asp Asp Arg Thr Asp Arg Gly Leu Asp Glu Glu Gly Glu  
 145 150 155 160  
 Glu Glu Ser Ser Ala Gly Ser Leu Pro Leu Val Ser Val Ser Leu Phe  
 165 170 175  
 Thr Pro Leu Thr Ala Ala Glu Met Ala Pro Tyr Met Lys Arg Leu Ser  
 180 185 190  
 Arg Gly Gln Thr Val Glu Asp Leu Leu Glu Val Leu Ser Asp Ile Asp  
 195 200 205  
 Glu Met Ser Arg Arg Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn  
 210 215 220  
 Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala  
 225 230 235 240  
 Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala  
 245 250 255  
 Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu  
 260 265 270  
 Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys  
 275 280 285  
 Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met  
 290 295 300  
 Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile  
 305 310 315 320  
 Leu His Met Glu Ala Val Met  
 325

&lt;210&gt; 791

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 791

Met Thr Phe Leu Leu Gln Trp Phe Pro Leu Gly Arg Ala Arg Val Val  
 1 5 10 15  
 Gly Asp Leu Cys Gly Phe Ser Thr Gln Ile His Pro Gly Val Ser Arg  
 20 25 30  
 Ala Gly Met Ala Asp Leu Glu Ser Pro Pro Phe Pro Arg Thr Cys Ser

35 40 45

Val Pro Arg Ala Ala Asn Lys Gly  
50 55

<210> 792  
<211> 91  
<212> PRT  
<213> Homo sapiens

<400> 792  
Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala  
1 5 10 15  
Gln Leu Trp Leu Ile Cys Leu Cys Pro Glu Ser Leu Ala Ser Phe Val  
20 25 30  
Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr  
35 40 45  
Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg  
50 55 60  
Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp  
65 70 75 80  
Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser  
85 90

<210> 793  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 793  
Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe  
1 5 10 15  
Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe  
20 25 30  
Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly  
35 40 45

<210> 794  
<211> 243  
<212> PRT  
<213> Homo sapiens

<400> 794  
Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln  
1 5 10 15  
Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg  
20 25 30

Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile  
                   35                                  40                                  45  
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser  
           50                                  55                                  60  
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp  
           65                                  70                                  75                                  80  
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr  
                                   85                                  90                                  95  
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn  
                                   100                                  105                                  110  
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser  
                                   115                                  120                                  125  
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala  
           130                                  135                                  140  
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu  
           145                                  150                                  155                                  160  
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys  
                                   165                                  170                                  175  
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr  
                                   180                                  185                                  190  
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His  
                                   195                                  200                                  205  
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val  
           210                                  215                                  220  
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile  
           225                                  230                                  235                                  240  
 Gly Tyr Gln

&lt;210&gt; 795

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 795

Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys  
           1                                  5                                  10                                  15  
 Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu  
                                   20                                  25                                  30  
 Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys  
           35                                  40                                  45  
 Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala

50                      55                      60  
 Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys  
 65                      70                      75                      80

<210> 796  
 <211> 301  
 <212> PRT  
 <213> Homo sapiens

<400> 796  
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
 1                      5                      10                      15  
 Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
 20                      25                      30  
 Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
 35                      40                      45  
 Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
 50                      55                      60  
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu  
 65                      70                      75                      80  
 Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe  
 85                      90                      95  
 Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met  
 100                      105                      110  
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln  
 115                      120                      125  
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val  
 130                      135                      140  
 Leu His Val Ser Trp Asn Asp Ala Arg Ala Tyr Cys Ala Trp Arg Gly  
 145                      150                      155                      160  
 Lys Arg Leu Pro Thr Glu Glu Glu Trp Glu Phe Ala Ala Arg Gly Gly  
 165                      170                      175  
 Leu Lys Gly Gln Val Tyr Pro Trp Gly Asn Trp Phe Gln Pro Asn Arg  
 180                      185                      190  
 Thr Asn Leu Trp Gln Gly Lys Phe Pro Lys Gly Asp Lys Ala Glu Asp  
 195                      200                      205  
 Gly Phe His Gly Val Ser Pro Val Asn Ala Phe Pro Ala Gln Asn Asn  
 210                      215                      220  
 Tyr Gly Leu Tyr Asp Leu Leu Gly Asn Val Trp Glu Trp Thr Ala Ser  
 225                      230                      235                      240

<400> 797																
Met	Gly	Asn	Phe	Arg	Gly	His	Ala	Leu	Pro	Gly	Thr	Phe	Phe	Phe	Ile	
1				5					10					15		
Ile	Gly	Leu	Trp	Trp	Cys	Thr	Lys	Ser	Ile	Leu	Lys	Tyr	Ile	Cys	Lys	
			20					25					30			
Lys	Gln	Lys	Arg	Thr	Cys	Tyr	Leu	Gly	Ser	Lys	Thr	Leu	Phe	Tyr	Arg	
		35					40					45				
Leu	Glu	Ile	Leu	Glu	Gly	Ile	Thr	Ile	Val	Gly	Met	Ala	Leu	Thr	Gly	
	50					55					60					
Met	Ala	Gly	Glu	Gln	Phe	Ile	Pro	Gly	Gly	Pro	His	Leu	Met	Leu	Tyr	
65					70					75					80	
Asp	Tyr	Lys	Gln	Gly	His	Trp	Asn	Gln	Leu	Leu	Gly	Trp	His	His	Phe	
				85					90					95		
Thr	Met	Tyr	Phe	Phe	Phe	Gly	Leu	Leu	Gly	Val	Ala	Asp	Ile	Leu	Cys	
			100					105					110			
Phe	Thr	Ile	Ser	Ser	Leu	Pro	Val	Ser	Leu	Thr	Lys	Leu	Met	Leu	Ser	
		115					120					125				
Asn	Ala	Leu	Phe	Val	Glu	Ala	Phe	Ile	Phe	Tyr	Asn	His	Thr	His	Gly	
		130				135					140					
Arg	Glu	Met	Leu	Asp	Ile	Phe	Val	His	Gln	Leu	Leu	Val	Leu	Val	Val	
145					150					155					160	
Phe	Leu	Thr	Gly	Leu	Val	Ala	Phe	Leu	Glu	Phe	Leu	Val	Arg	Asn	Asn	
				165					170					175		
Val	Leu	Leu	Glu	Leu	Leu	Arg	Ser	Ser	Leu	Ile	Leu	Leu	Gln	Gly	Ser	
			180					185					190			
Trp	Phe	Phe	Gln	Ile	Gly	Phe	Val	Leu	Tyr	Pro	Pro	Ser	Gly	Gly	Pro	
		195					200					205				
Ala	Trp	Asp	Leu	Met	Asp	His	Glu	Asn	Ile	Leu	Phe	Leu	Thr	Ile	Cys	
	210					215					220					

Phe Cys Trp His Tyr Ala Val Thr Ile Val Ile Val Gly Met Asn Tyr  
 225 230 235 240  
 Ala Phe Ile Thr Trp Leu Val Lys Ser Arg Leu Lys Arg Leu Cys Ser  
 245 250 255  
 Ser Glu Val Gly Leu Leu Lys Asn Ala Glu Arg Glu Gln Glu Ser Glu  
 260 265 270  
 Glu Glu Met  
 275

<210> 798  
 <211> 438  
 <212> PRT  
 <213> Homo sapiens

<400> 798  
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro  
 1 5 10 15  
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu  
 20 25 30  
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala  
 35 40 45  
 Trp Phe Ile Ala Gly Ile Phe Leu Leu Leu Thr Ile Pro Ile Ser Leu  
 50 55 60  
 Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln  
 65 70 75 80  
 Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp  
 85 90 95  
 Ser Trp Ile Ala Leu Lys Tyr Pro Gly Ile Ala Ile Tyr Val Asp Thr  
 100 105 110  
 Cys Arg Glu Cys Tyr Glu Ala Tyr Val Ile Tyr Asn Phe Met Gly Phe  
 115 120 125  
 Leu Thr Asn Tyr Leu Thr Asn Arg Tyr Pro Asn Leu Val Leu Ile Leu  
 130 135 140  
 Glu Ala Lys Asp Gln Gln Lys His Phe Pro Pro Leu Cys Cys Cys Pro  
 145 150 155 160  
 Pro Trp Ala Met Gly Glu Val Leu Leu Phe Arg Cys Lys Leu Gly Val  
 165 170 175  
 Leu Gln Tyr Thr Val Val Arg Pro Phe Thr Thr Ile Val Ala Leu Ile  
 180 185 190  
 Cys Glu Leu Leu Gly Ile Tyr Asp Glu Gly Asn Phe Ser Phe Ser Asn  
 195 200 205  
 Ala Trp Thr Tyr Leu Val Ile Ile Asn Asn Met Ser Gln Leu Phe Ala

210                      215                      220  
 Met Tyr Cys Leu Leu Leu Phe Tyr Lys Val Leu Lys Glu Glu Leu Ser  
 225                      230                      235                      240  
 Pro Ile Gln Pro Val Gly Lys Phe Leu Cys Val Lys Leu Val Val Phe  
                     245                      250                      255  
 Val Ser Phe Trp Gln Ala Val Val Ile Ala Leu Leu Val Lys Val Gly  
                     260                      265                      270  
 Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr Val Glu Ala Val  
                     275                      280                      285  
 Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu Met Phe Leu Ala  
                     290                      295                      300  
 Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro Tyr Val Gln Glu  
 305                      310                      315                      320  
 Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala Met Trp Asp Val  
                     325                      330                      335  
 Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg His Val Gly Arg  
                     340                      345                      350  
 Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro Glu Asp Gln Asp  
                     355                      360                      365  
 Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser Gln Asp Ala Ile  
                     370                      375                      380  
 Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly His Tyr Gln Gly  
 385                      390                      395                      400  
 Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr Thr Ala Lys Ile  
                     405                      410                      415  
 Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser  
                     420                      425                      430  
 Asp Lys Ser Val Asp Ser  
                     435

&lt;210&gt; 799

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 799

Met Leu Thr Cys Ile Asp Met Asp Trp Lys Val Leu Thr Trp Leu Arg  
 1                      5                      10                      15  
 Tyr Thr Leu Trp Ile Pro Leu Tyr Pro Leu Gly Met Phe Gly Gly Ser  
                     20                      25                      30  
 Cys Leu Ser Asp Ser Val His Ser Asn Ile Gln  
                     35                      40

&lt;210&gt; 800

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 800

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15

Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
 20 25 30

Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
 35 40 45

Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser  
 50 55 60

Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile  
 65 70 75 80

Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile  
 85 90 95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met  
 100 105

&lt;210&gt; 801

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 801

Met Arg Ile Arg Phe Thr Ser Pro His Pro Lys Asp Phe Pro Asp Glu  
 1 5 10 15

Val Leu Gln Leu Ile His Glu Arg Asp Asn Ile Cys Lys Gln Ile His  
 20 25 30

Leu Pro Ala Gln Ser Gly Ser Ser Arg Val Leu Glu Ala Met Arg Arg  
 35 40 45

Gly Tyr Ser Arg Glu Ala Tyr Val Glu Leu Val His His Ile Arg Glu  
 50 55 60

Ser Ile Pro Gly Val Ser Leu Ser Ser Asp Phe Ile Ala Gly Phe Cys  
 65 70 75 80

Gly Glu Thr Glu Glu Asp His Val Gln Thr Val Ser Leu Leu Arg Glu  
 85 90 95

Val Gln Tyr Asn Met Gly Phe Leu Phe Ala Tyr Ser Met Arg Gln Lys  
 100 105 110

Thr Arg Ala Tyr His Arg Leu Lys Asp Asp Val Pro Glu Glu Val Lys  
 115 120 125



Leu Arg Arg Leu Glu Glu Leu Ile Thr Ile Phe Arg Glu Glu Ala Thr  
 130 135 140  
 Lys Ala Asn Gln Thr Ser Val Gly Cys Thr Gln Leu Val Leu Val Glu  
 145 150 155 160  
 Gly Leu Ser Lys Arg Ser Ala Thr Asp Leu Cys Gly Arg Asn Asp Gly  
 165 170 175  
 Asn Leu Lys Val Ile Phe Pro Asp Ala Glu Met Glu Asp Val Asn Asn  
 180 185 190  
 Pro Gly Leu Arg Val Arg Ala Gln Pro Gly Asp Tyr Val Leu Val Lys  
 195 200 205  
 Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His Val Leu Cys Arg  
 210 215 220  
 Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys  
 225 230

<210> 802  
 <211> 470  
 <212> PRT  
 <213> Homo sapiens

<400> 802  
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr  
 1 5 10 15  
 Ser Ser Arg Gly Ala Gly Leu Leu Leu Leu Leu Gly Gln Val Ala Asp  
 20 25 30  
 Gly Leu Cys Thr Pro Leu Val Gly Tyr Glu Ala Asp Arg Ala Ala Ser  
 35 40 45  
 Cys Cys Ala Arg Tyr Gly Pro Arg Lys Ala Trp His Leu Val Gly Thr  
 50 55 60  
 Val Cys Val Leu Leu Ser Phe Pro Phe Ile Phe Ser Pro Cys Leu Gly  
 65 70 75 80  
 Cys Gly Ala Ala Thr Pro Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro  
 85 90 95  
 Phe Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His  
 100 105 110  
 Leu Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu  
 115 120 125  
 Leu Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val  
 130 135 140  
 Tyr Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val  
 145 150 155 160  
 Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp  
 165 170 175

Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala  
 180 185 190  
 Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro  
 195 200 205  
 His Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr  
 210 215 220  
 Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe  
 225 230 235 240  
 Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu  
 245 250 255  
 Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro  
 260 265 270  
 Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe  
 275 280 285  
 Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn  
 290 295 300  
 Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp  
 305 310 315 320  
 Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val  
 325 330 335  
 Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met  
 340 345 350  
 Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val Tyr  
 355 360 365  
 Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met  
 370 375 380  
 Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala  
 385 390 395 400  
 Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val  
 405 410 415  
 Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr  
 420 425 430  
 Arg Leu Arg Arg Ser Arg Gly Gly Glu His Arg Thr Pro Ser Glu Gly  
 435 440 445  
 Glu Gly Ile Ser Thr Ala Pro Pro Pro Cys Trp Asn Glu Thr Gln Pro  
 450 455 460  
 Gln Gly Gly Ala Lys Leu  
 465 470

&lt;210&gt; 803

<211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any amino acid

<400> 803  
 Met Gly His Leu Pro His Ile Leu Ser Leu Gly Leu Phe Leu Thr Leu  
           1                          5                          10                          15  
 Leu Met Phe Cys Ile Thr Lys Ser Asp Gly Gln Asn Lys Ile Tyr Arg  
                           20                          25                          30  
 Cys Phe Lys Lys Ala Ser Pro Gln Val Ile Val Thr His Thr Lys Met  
                           35                          40                          45  
 Arg Ile Ala Ala Ile Ile Cys Ser Tyr Trp Xaa Gly Xaa Ala Asn Leu  
           50                          55                          60  
 Gly Thr Arg Ile Lys Leu Gln Leu Asn Ser Ala Val Tyr Lys Ile Phe  
           65                          70                          75                          80  
 Val Ser Leu Xaa Arg Lys Arg Lys Arg Thr Leu Ser Trp  
                           85                          90

<210> 804  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

<400> 804  
 Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly  
           1                          5                          10                          15  
 Leu Leu Val Leu Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Ala Leu  
                           20                          25                          30  
 Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro  
                           35                          40                          45  
 Pro Leu Ala Glu Thr Gly Ala Pro Arg Arg Phe Arg Arg Ser Val Pro  
           50                          55                          60  
 Arg Gly Glu Ala Ala Gly Ala Val Gln Asp Leu Ala Arg Ala Leu Ala  
           65                          70                          75                          80

His Leu Leu Glu Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln  
                                     85                                    90                                    95  
 Glu Ala Glu Asp Gln Gln Ala Arg Val Leu Ala Gln Leu Leu Arg Val  
                                     100                                    105                                    110  
 Trp Gly Ala Pro Arg Asn Ser Asp Pro Ala Leu Gly Leu Asp Asp Asp  
                                     115                                    120                                    125  
 Pro Asp Ala Pro Ala Ala Gln Leu Ala Arg Ala Leu Leu Arg Ala Arg  
                                     130                                    135                                    140  
 Leu Asp Pro Ala Ala Leu Ala Ala Gln Leu Val Pro Ala Pro Val Pro  
                                     145                                    150                                    155                                    160  
 Ala Ala Ala Leu Arg Pro Arg Pro Pro Val Tyr Asp Asp Gly Pro Ala  
                                     165                                    170                                    175  
 Gly Pro Asp Ala Glu Glu Ala Gly Asp Glu Thr Pro Asp Val Asp Pro  
                                     180                                    185                                    190  
 Glu Leu Leu Arg Tyr Leu Leu Gly Arg Ile Leu Ala Gly Ser Ala Asp  
                                     195                                    200                                    205  
 Ser Glu Gly Val Ala Ala Pro Arg Arg Leu Arg Arg Ala Ala Asp His  
                                     210                                    215                                    220  
 Asp Val Gly Ser Glu Leu Pro Pro Glu Gly Val Leu Gly Ala Leu Leu  
                                     225                                    230                                    235                                    240  
 Arg Val Lys Arg Leu Glu Thr Pro Ala Pro Gln Val Pro Ala Arg Arg  
                                     245                                    250                                    255  
 Leu Leu Pro Pro  
                                     260

<210> 805  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 805  
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg  
                                     1                                    5                                    10                                    15  
 Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn  
                                     20                                    25                                    30  
 Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr  
                                     35                                    40                                    45  
 Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala  
                                     50                                    55                                    60  
 Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met  
                                     65                                    70                                    75                                    80  
 Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser  
                                     85                                    90                                    95

<210> 806  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 806  
 Met Thr Leu Tyr Ser Lys Leu Leu Trp Leu Phe Lys Gly Glu Leu Leu  
   1                  5                  10                  15  
 Phe Pro Leu Val Leu Ala Tyr Val Leu Leu Leu Tyr Ile Val Thr Lys  
                   20                  25                  30  
 Phe Asn Tyr Leu Ile Leu Lys Leu Phe Pro Asn Lys Ile Gln Ile Lys  
           35                  40                  45  
 Arg Gly Ser Ile Ala Ser Asn Arg Ser Leu Glu Ser Ser Ala Ser Leu  
   50                  55                  60  
 Pro Ala Arg Lys Glu Glu Lys Leu Leu Lys Lys Phe  
   65                  70                  75

<210> 807  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 807  
 Met Leu Leu Ser Lys Glu His Thr Ser Leu Gly Trp Leu Val Ile Phe  
   1                  5                  10                  15  
 Leu Thr Leu Ala Ser Gln Leu Ile Ser Tyr Gly Ser Arg Thr Gly Asn  
           20                  25                  30  
 Ser Arg Cys Pro Pro Cys Leu Tyr Arg Thr Leu His Thr Val Ser Thr  
           35                  40                  45  
 Ser His Val Leu Ser Ser Leu Phe Val Ser Thr Phe Ser Gly Asp Glu  
   50                  55                  60  
 Leu Val Trp Thr Thr  
   65

<210> 808  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 808  
 Met Glu Thr Leu Gly Ala Leu Leu Val Leu Glu Phe Leu Leu Leu Ser  
   1                  5                  10                  15  
 Pro Val Glu Ala Gln Gln Ala Thr Glu His Arg Leu Lys Pro Trp Leu  
           20                  25                  30

Val Gly Leu Ala Ala Val Val Gly Phe Leu Phe Ile Val Tyr Leu Val  
                   35                  40                  45  
 Leu Leu Ala Asn Arg Leu Trp Cys Ser Lys Ala Arg Ala Glu Asp Glu  
           50                  55                  60  
 Glu Glu Thr Thr Phe Arg Met Glu Ser Asn Leu Tyr Gln Asp Gln Ser  
       65                  70                  75                  80  
 Glu Asp Lys Arg Glu Lys Lys Glu Ala Lys Glu Lys Glu Glu Lys Arg  
                   85                  90                  95  
 Lys Lys Glu Lys Lys Thr Ala Lys Glu Gly Glu Ser Asn Leu Gly Leu  
                   100                  105                  110  
 Asp Leu Glu Glu Lys Glu Pro Gly Asp His Glu Arg Ala Lys Ser Thr  
           115                  120                  125  
 Val Met  
       130

<210> 809  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 809  
 Met Asn Leu Ser Phe Leu Ser Phe Phe Leu Phe Phe Tyr Leu Leu Trp  
       1                  5                  10                  15  
 Ser Pro Ala Glu Ser Val Tyr Lys Lys Gly Met Val Lys Lys Asn Leu  
                   20                  25                  30  
 Ser His Ser Ile Val Glu Lys Ile Lys  
           35                  40

<210> 810  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any amino acid

<400> 810  
 Met Arg Pro Leu Leu Leu Gly Gly Tyr Trp Val Leu Cys Leu Ser Val  
       1                  5                  10                  15  
 Leu Gly His Ala Ala Leu Tyr His Phe Trp Leu Arg Glu Glu Gly Lys  
                   20                  25                  30  
 Gly Pro Pro Gln Val Xaa Ser Val Leu Ala Leu Ala Leu Pro Ala Gly  
           35                  40                  45  
 Ser Cys Ala Pro Gly Leu Pro Phe Pro Gly Pro Leu Ile Pro Thr Gln

50                      55                      60  
 Leu Leu Phe Ala Leu Glu Trp Gly Thr Pro Thr Pro Leu Arg Asp His  
 65                      70                      75                      80  
 Pro Pro His Ser Met His Ser Ala Pro Gln Asn Pro Pro Val Phe Leu  
                     85                      90                      95  
 Gly Thr His Thr Cys Pro Pro Ser Trp Tyr Phe Arg Leu Ile Pro Gln  
                     100                      105                      110  
 Ala

<210> 811  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 811  
 Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu  
 1                      5                      10                      15  
 Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu  
                     20                      25                      30  
 Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys  
                     35                      40                      45  
 Pro Cys Cys Pro Arg Leu Leu Leu Thr Arg Lys Lys Leu Gln Leu Leu  
                     50                      55                      60  
 Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu  
 65                      70                      75                      80  
 Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile  
                     85                      90                      95  
 Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser  
                     100                      105                      110  
 Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg  
                     115                      120                      125  
 Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln  
                     130                      135                      140  
 Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu  
 145                      150                      155                      160  
 Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr  
                     165                      170                      175  
 Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu  
                     180                      185                      190  
 Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val  
                     195                      200                      205

Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro  
 210 215 220  
 Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr  
 225 230 235 240  
 Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro  
 245 250 255  
 Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly  
 260 265 270  
 Glu Gln Cys  
 275

<210> 812  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 812  
 Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn  
 1 5 10 15  
 Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe  
 20 25 30  
 Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val  
 35 40 45  
 Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys  
 50 55 60  
 Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu  
 65 70 75 80  
 Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr  
 85 90 95  
 Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met  
 100 105 110  
 Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met  
 115 120 125  
 Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met  
 130 135 140  
 Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn  
 145 150 155 160  
 Glu

<210> 813  
 <211> 348  
 <212> PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 813

Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu  
 1 5 10 15  
 Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His  
 20 25 30  
 Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly  
 35 40 45  
 Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val  
 50 55 60  
 Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr  
 65 70 75 80  
 Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met  
 85 90 95  
 Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp  
 100 105 110  
 Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln  
 115 120 125  
 Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp  
 130 135 140  
 Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu  
 145 150 155 160  
 Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys  
 165 170 175  
 Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys  
 180 185 190  
 Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu  
 195 200 205  
 Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala  
 210 215 220  
 Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr  
 225 230 235 240  
 Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu  
 245 250 255  
 Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr  
 260 265 270  
 Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr  
 275 280 285  
 Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro  
 290 295 300  
 Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg

305                      310                      315                      320  
 Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser  
                                  325                      330                      335

Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly  
                                  340                      345

<210> 814

<211> 44

<212> PRT

<213> Homo sapiens

<400> 814

Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu  
   1                                  5                                  10                                  15

Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu  
                                   20                                  25                                  30

Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys  
                                   35                                  40

<210> 815

<211> 116

<212> PRT

<213> Homo sapiens

<400> 815

Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Gly Leu Pro  
   1                                  5                                  10                                  15

Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn  
                                   20                                  25                                  30

Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr  
                                   35                                  40                                  45

Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys  
   50                                  55                                  60

Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala  
   65                                  70                                  75                                  80

Ser Thr Thr Ser Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu  
                                   85                                  90                                  95

Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu  
                                   100                                  105                                  110

Trp Gly Leu Leu  
                                   115

<210> 816

<211> 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 816

Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser  
 1 5 10 15

Leu Leu Gln Gly Phe Arg Leu Leu Leu Leu Cys Val Cys Pro Gly Trp  
 20 25 30

Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp  
 35 40 45

Ile Gly  
 50

&lt;210&gt; 817

&lt;211&gt; 206

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 817

Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp  
 1 5 10 15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly  
 20 25 30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser  
 35 40 45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro  
 50 55 60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala  
 65 70 75 80

Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg  
 85 90 95

Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His  
 100 105 110

Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp  
 115 120 125

Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln  
 130 135 140

Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val  
 145 150 155 160

Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu  
 165 170 175

Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg  
                   180                                  185                                  190

Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly  
                   195                                  200                                  205

<210> 818

<211> 58

<212> PRT

<213> Homo sapiens

<400> 818

Met Trp Pro Cys Cys Leu Asp Ser Leu Leu Phe Gly Phe Trp Leu Trp  
       1                                  5                                  10                                  15

Ala Gln Gly Ile Thr Leu Leu Ser Glu Asp Ser Ile Arg Ile Val Cys  
                   20                                  25                                  30

Ser Ser Cys Glu Pro Glu Val Leu His Val Pro Thr Pro Val Tyr Arg  
           35                                  40                                  45

Pro Cys Pro Ser His Ser Pro Leu Thr Phe  
       50                                  55

<210> 819

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any amino acid

<400> 819

Met Leu Xaa Gln Phe Phe Leu Phe Val Cys Phe His Phe Ile Thr Tyr  
       1                                  5                                  10                                  15

Gly Phe Leu Cys His Thr Thr Arg Asn Phe Glu Lys  
                   20                                  25

<210> 820

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (13)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (22)

<223> Xaa equals any amino acid

<400> 820

Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg  
1 5 10 15

Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr  
20 25 30

Ser Pro Met Gly Ala Val Gly Thr Glu Phe  
35 40

<210> 821

<211> 75

<212> PRT

<213> Homo sapiens

<400> 821

Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile Pro Leu Arg  
1 5 10 15

Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met  
20 25 30

Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Leu Gly  
35 40 45

Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn  
50 55 60

Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg  
65 70 75

<210> 822

<211> 97

<212> PRT

<213> Homo sapiens

<400> 822

Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu  
1 5 10 15

Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr  
20 25 30

Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys  
35 40 45

Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile  
50 55 60

Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu

65                      70                      75                      80  
Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser  
                              85                      90                      95

Gly

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<210> 823
<211> 187
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (167)
<223> Xaa equals any amino acid
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<400> 823  
Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr  
1 5 10 15

Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu  
20 25 30

Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val  
35 40 45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys  
50 55 60

Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala  
65 70 75 80

Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala  
85 90 95

Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu  
100 105 110

Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu  
115 120 125

Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala  
130 135 140

Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly  
145 150 155 160

Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu  
165 170 175

Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg  
180 185

<210> 824  
<211> 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 824

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val  
 1 5 10 15

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val  
 20 25 30

Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu  
 35 40 45

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu  
 50 55 60

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly  
 65 70 75 80

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly  
 85 90 95

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr  
 100 105 110

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly  
 115 120 125

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly  
 130 135 140

&lt;210&gt; 825

&lt;211&gt; 354

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

Met Trp Arg Leu Trp Pro Gly Ser Pro Leu Val Pro Leu Ser Trp Leu  
 1 5 10 15

Trp Pro Ala Arg Ala Ala Phe Leu Ser Gly Pro Trp Thr Leu Pro Pro  
 20 25 30

Cys Leu Pro Asp Pro Leu Leu Ala Val Pro Lys Cys Cys Leu Thr Leu  
 35 40 45

Gly Ile His Leu Leu Pro Ala Trp Pro Gly Pro Pro Val Gly Gly Gly  
 50 55 60

Cys Ser Gln Leu His Arg Gly Cys Cys Tyr Pro Gly Met Gly Cys Leu  
 65 70 75 80

Asn Arg Asp Leu Cys Pro Pro Ser Leu Val Ser Arg Arg Trp Gly Asp  
 85 90 95

Gln Leu Leu Trp Ser Pro Asp Gly Ser Lys Ile Leu Ala Thr Thr Pro  
 100 105 110  
 Ser Ala Val Phe Arg Val Trp Glu Ala Gln Met Trp Thr Cys Glu Arg  
 115 120 125  
 Trp Pro Thr Leu Ser Gly Arg Cys Gln Thr Gly Cys Trp Ser Pro Asp  
 130 135 140  
 Gly Ser Arg Leu Leu Phe Thr Val Leu Gly Glu Pro Leu Ile Tyr Ser  
 145 150 155 160  
 Leu Ser Phe Pro Glu Arg Cys Gly Glu Gly Lys Gly Cys Val Gly Gly  
 165 170 175  
 Ala Lys Ser Ala Thr Ile Val Ala Asp Leu Ser Glu Thr Thr Ile Gln  
 180 185 190  
 Thr Pro Asp Gly Glu Glu Arg Leu Gly Gly Glu Ala His Ser Met Val  
 195 200 205  
 Trp Asp Pro Ser Gly Glu Arg Leu Ala Val Leu Met Lys Gly Lys Pro  
 210 215 220  
 Arg Val Gln Asp Gly Lys Pro Val Ile Leu Leu Phe Arg Thr Arg Asn  
 225 230 235 240  
 Ser Pro Val Phe Glu Leu Leu Pro Cys Gly Ile Ile Gln Gly Glu Pro  
 245 250 255  
 Gly Ala Gln Pro Gln Leu Ile Thr Phe His Leu Pro Ser Thr Lys Gly  
 260 265 270  
 Pro Cys Ser Val Trp Ala Gly Pro Gln Ala Glu Leu Pro Thr Ser Arg  
 275 280 285  
 Cys Thr Leu Ser Met Pro Ser Phe His Val Leu Ala Gln Cys Leu Gly  
 290 295 300  
 Gly Pro Arg Asn Pro Leu Leu Gly Val Glu Ala Leu Phe Met Thr Cys  
 305 310 315 320  
 Pro Ser Leu Leu Arg His Pro Gln Pro Leu Pro Leu Gly Thr Leu Ser  
 325 330 335  
 Gln Gly His His Leu Phe Cys Pro Thr Pro His Ile Pro Thr Ser Lys  
 340 345 350  
 Asn Lys

&lt;210&gt; 826

&lt;211&gt; 338

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

Met Arg Lys Pro Ala Ala Gly Phe Leu Pro Ser Leu Leu Lys Val Leu



1	5	10	15
Leu Leu Pro Leu Ala Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser	20	25	30
Thr Pro Gly Ser Pro Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala	35	40	45
Leu Leu Thr Pro Thr Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala	50	55	60
Thr His Gly Cys Arg Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu	65	70	75
Asn His Gly Leu Val Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr	85	90	95
Ala Ser Trp Phe Glu Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser	100	105	110
Asn His Val Tyr Tyr Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser	115	120	125
Ile Leu Ser Pro Asn Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val	130	135	140
Ser Pro Thr Thr Met Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr	145	150	155
Glu Arg Gln Thr Phe Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val	165	170	175
Glu Glu Leu Leu Gln Ser Ser Leu Ser Leu Gly Ser Gln Glu Gln Ala	180	185	190
Pro Glu His Lys Gln Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr	195	200	205
Gln Glu His Lys Gln Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu	210	215	220
Glu Gln Glu Glu Glu Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu	225	230	235
Gly Arg Glu Ala Val Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe	245	250	255
His Ser Glu Ser Leu Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val	260	265	270
Arg Glu Val Glu Ser Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu	275	280	285
Ile Arg Ser Ala Gln Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu	290	295	300
Asn Ser Tyr Trp Arg Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro	305	310	315
His Thr Glu Pro Cys Trp Cys Cys Ala Ile Arg Ser Trp Arg Ile Pro	325	330	335

Ala Ser

<210> 827  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 827  
 Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Phe Pro Gln  
           1                  5                  10                  15  
 Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp  
                   20                  25                  30  
 Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro  
                   35                  40                  45  
 Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
           50                  55

<210> 828  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 828  
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala  
           1                  5                  10                  15  
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys  
                   20                  25                  30  
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val  
           35                  40                  45

<210> 829  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens

<400> 829  
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys  
           1                  5                  10                  15  
 Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly  
                   20                  25                  30  
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile  
           35                  40                  45  
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser  
           50                  55                  60

Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His  
 65 70 75 80  
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala  
 85 90 95  
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn  
 100 105 110  
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile  
 115 120 125  
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile  
 130 135 140  
 Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys  
 145 150 155 160  
 Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu  
 165 170 175  
 Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser  
 180 185 190  
 Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu  
 195 200 205  
 Thr Lys Ala Gln Lys Glu Lys Leu Arg Cys Glu Asn Asn Ala  
 210 215 220

<210> 830  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any amino acid

<400> 830  
 Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu  
 1 5 10 15  
 Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu  
 20 25 30  
 Pro Ala Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg  
 35 40 45  
 Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly  
 50 55 60  
 Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr  
 65 70 75 80  
 Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Cys Lys Gly Xaa Leu Val Pro  
 85 90 95  
 Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg  
 100 105 110  
 Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu  
 115 120 125  
 Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val  
 130 135 140  
 Leu Gly Phe Pro Ser Ala Ser Arg  
 145 150

<210> 831  
 <211> 713  
 <212> PRT  
 <213> Homo sapiens

<400> 831  
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala

1	5	10	15
His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro	20	25	30
Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg	35	40	45
Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser	50	55	60
Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys	65	70	75
Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser	85	90	95
Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val	100	105	110
Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Arg Ala Pro Met Gly Gln Gly	115	120	125
Phe Leu Leu Ser Tyr Ser Gln Asp Trp Leu Met Cys Leu Gln Glu Glu	130	135	140
Phe Gln Cys Leu Asn His Arg Cys Val Ser Ala Val Gln Arg Cys Asp	145	150	155
Gly Val Asp Ala Cys Gly Asp Gly Ser Asp Glu Ala Gly Cys Ser Ser	165	170	175
Asp Pro Phe Pro Gly Leu Thr Pro Arg Pro Val Pro Ser Leu Pro Cys	180	185	190
Asn Val Thr Leu Glu Asp Phe Tyr Gly Val Phe Ser Ser Pro Gly Tyr	195	200	205
Thr His Leu Ala Ser Val Ser His Pro Gln Ser Cys His Trp Leu Leu	210	215	220
Asp Pro His Asp Gly Arg Arg Leu Ala Val Arg Phe Thr Ala Leu Asp	225	230	235
Leu Gly Phe Gly Asp Ala Val His Val Tyr Asp Gly Pro Gly Pro Pro	245	250	255
Glu Ser Ser Arg Leu Leu Arg Ser Leu Thr His Phe Ser Asn Gly Lys	260	265	270
Ala Val Thr Val Glu Thr Leu Ser Gly Gln Ala Val Val Ser Tyr His	275	280	285
Thr Val Ala Trp Ser Asn Gly Arg Gly Phe Asn Ala Thr Tyr His Val	290	295	300
Arg Gly Tyr Cys Leu Pro Trp Asp Arg Pro Cys Gly Leu Gly Ser Gly	305	310	315
Leu Gly Ala Gly Glu Gly Leu Gly Glu Arg Cys Tyr Ser Glu Ala Gln	325	330	335

Arg Cys Asp Gly Ser Trp Asp Cys Ala Asp Gly Thr Asp Glu Glu Asp  
 340 345 350  
 Cys Pro Gly Cys Pro Pro Gly His Phe Pro Cys Gly Ala Ala Gly Thr  
 355 360 365  
 Ser Gly Ala Thr Ala Cys Tyr Leu Pro Ala Asp Arg Cys Asn Tyr Gln  
 370 375 380  
 Thr Phe Cys Ala Asp Gly Ala Asp Glu Arg Arg Cys Arg His Cys Gln  
 385 390 395 400  
 Pro Gly Asn Phe Arg Cys Arg Asp Glu Lys Cys Val Tyr Glu Thr Trp  
 405 410 415  
 Val Cys Asp Gly Gln Pro Asp Cys Ala Asp Gly Ser Asp Glu Trp Asp  
 420 425 430  
 Cys Ser Tyr Val Leu Pro Arg Lys Val Ile Thr Ala Ala Val Ile Gly  
 435 440 445  
 Ser Leu Val Cys Gly Leu Leu Leu Val Ile Ala Leu Gly Cys Thr Cys  
 450 455 460  
 Lys Leu Tyr Ala Ile Arg Thr Gln Glu Tyr Ser Ile Phe Ala Pro Leu  
 465 470 475 480  
 Ser Arg Met Glu Ala Glu Ile Val Gln Gln Gln Ala Pro Pro Ser Tyr  
 485 490 495  
 Gly Gln Leu Ile Ala Gln Gly Ala Ile Pro Pro Val Glu Asp Phe Pro  
 500 505 510  
 Thr Glu Asn Pro Asn Asp Asn Ser Val Leu Gly Asn Leu Arg Ser Leu  
 515 520 525  
 Leu Gln Ile Leu Arg Gln Asp Met Thr Pro Gly Gly Gly Pro Gly Ala  
 530 535 540  
 Arg Arg Arg Gln Arg Gly Arg Leu Met Arg Arg Leu Val Arg Arg Leu  
 545 550 555 560  
 Arg Arg Trp Gly Leu Leu Pro Arg Thr Asn Thr Pro Ala Arg Ala Ser  
 565 570 575  
 Glu Ala Arg Ser Gln Val Thr Pro Ser Ala Ala Pro Leu Glu Ala Leu  
 580 585 590  
 Asp Gly Gly Thr Gly Pro Ala Arg Glu Gly Gly Ala Val Gly Gly Gln  
 595 600 605  
 Asp Gly Glu Gln Ala Pro Pro Leu Pro Ile Lys Ala Pro Leu Pro Ser  
 610 615 620  
 Ala Ser Thr Ser Pro Ala Pro Thr Thr Val Pro Glu Ala Pro Gly Pro  
 625 630 635 640  
 Leu Pro Ser Leu Pro Leu Glu Pro Ser Leu Leu Ser Gly Val Val Gln  
 645 650 655

Ala Leu Arg Gly Arg Leu Leu Pro Ser Leu Gly Pro Pro Gly Pro Thr  
660 665 670

Arg Ser Pro Pro Gly Pro His Thr Ala Val Leu Ala Leu Glu Asp Glu  
675 680 685

Asp Asp Val Leu Leu Val Pro Leu Ala Glu Pro Gly Val Trp Val Ala  
690 695 700

Glu Ala Glu Asp Glu Pro Leu Leu Thr  
705 710

<210> 832  
<211> 340  
<212> PRT  
<213> Homo sapiens

<400> 832  
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala  
1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
20 25 30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
50 55 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
130 135 140

Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu  
145 150 155 160

Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu  
165 170 175

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln  
180 185 190

Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg  
195 200 205

Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr  
210 215 220

Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala  
 225 230 235 240

Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg  
 245 250 255

Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile  
 260 265 270

His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro  
 275 280 285

Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His  
 290 295 300

Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp  
 305 310 315 320

Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser  
 325 330 335

Ile Lys Glu Lys  
 340

<210> 833  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 833  
 Met Val Arg His Ile Arg Glu Arg Arg Arg Gln Pro Leu Ala Phe Gln  
 1 5 10 15

Arg Val Leu Leu Ser Leu Cys Leu Leu Glu Gly Ile Trp His Ser Pro  
 20 25 30

Ala Ala Ala Ala Gly Gly Gly Ser His Cys Ser Ser Trp Pro Ser Leu  
 35 40 45

Tyr Thr Thr Phe Gln Arg Val Ser Leu Leu Glu Leu Asp Leu Gly Leu  
 50 55 60

<210> 834  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any amino acid

<400> 834



Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa  
 1 5 10 15

Val Leu Leu Phe Leu Tyr Cys Leu Ala Gln Ser Phe Ala Tyr Ser Arg  
 20 25 30

His Gln Thr Val Gly Leu Val Val His Asp Tyr Trp  
 35 40

<210> 835

<211> 82

<212> PRT

<213> Homo sapiens

<400> 835

Met Lys Lys Val Ala Arg Leu Ser Ser Leu Gly His Val Val Trp Arg  
 1 5 10 15

Leu Tyr Ala Arg Val Leu Ala Leu Ile Thr Cys Ile Phe Trp Val Leu  
 20 25 30

Ala Leu Ile Ile Cys Ile Phe Thr Pro Gln Ile Phe Phe Lys His Leu  
 35 40 45

Leu His Ala Arg Pro Cys Ser Arg Tyr Arg Arg Tyr Asn Ser Lys Asn  
 50 55 60

Thr Asp Leu Ala Leu Met Lys Leu Lys Leu Leu Arg Gln Ala Asp Ser  
 65 70 75 80

Asp Lys

<210> 836

<211> 54

<212> PRT

<213> Homo sapiens

<400> 836

Met Tyr Arg Phe Phe Leu Cys Val Asp Leu Ser Phe Gln Leu Leu Trp  
 1 5 10 15

Val Ile Pro Arg Ser Thr Val Thr Gly Thr Tyr Gly Lys Asp Ile Phe  
 20 25 30

Ser Leu Ala Gly Asn His His Thr Val Phe Gln Ser Ser Cys Thr Ile  
 35 40 45

Leu His Thr His Gln His  
 50

<210> 837

<211> 221

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (184)  
 <223> Xaa equals any amino acid

<400> 837

```

Met Ala Gly Gly Val Arg Pro Leu Arg Gly Leu Arg Ala Leu Cys Arg
 1           5           10           15

Val Leu Leu Phe Leu Ser Gln Phe Cys Ile Leu Ser Gly Gly Glu Ser
          20           25           30

Thr Glu Ile Pro Pro Tyr Val Met Lys Cys Pro Ser Asn Gly Leu Cys
          35           40           45

Ser Arg Leu Pro Ala Asp Cys Ile Asp Cys Thr Thr Asn Phe Ser Cys
          50           55           60

Thr Tyr Gly Lys Pro Val Thr Phe Asp Cys Ala Val Lys Pro Ser Val
          65           70           75           80

Thr Cys Val Asp Gln Asp Phe Lys Ser Gln Lys Asn Phe Ile Ile Asn
          85           90           95

Met Thr Cys Arg Phe Cys Trp Gln Leu Pro Glu Thr Asp Tyr Glu Cys
          100          105          110

Thr Asn Ser Thr Ser Cys Met Thr Val Ser Cys Pro Arg Gln Arg Tyr
          115          120          125

Pro Ala Asn Cys Thr Val Arg Asp His Val His Cys Leu Gly Asn Arg
          130          135          140

Thr Phe Pro Lys Met Leu Tyr Cys Asn Trp Thr Gly Gly Tyr Lys Trp
          145          150          155          160

Ser Thr Ala Leu Ala Leu Ser Ile Thr Leu Gly Gly Phe Gly Ala Asp
          165          170          175

Arg Phe Tyr Leu Gly Gln Trp Xaa Glu Gly Leu Gly Lys Leu Phe Ser
          180          185          190

Phe Gly Gly Leu Gly Ile Trp Thr Leu Ile Asp Val Leu Leu Ile Gly
          195          200          205

Val Gly Tyr Val Gly Pro Ala Asp Gly Ser Leu Tyr Ile
          210          215          220

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<210> 838  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 838

```

Met Trp Leu Thr Gln Pro Glu Ser Leu Ser Leu Cys Val Ser Val Ser
 1           5           10           15

Gln Asp Trp Ala His Ile Leu Ala Leu Ser Ile Thr Met Leu Trp Asp

```

20 25 30

Phe Arg Glu Phe Pro His Leu  
35

<210> 839  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 839  
Met Glu Asn Val Cys Gln Ala Gly Phe Pro Ser Leu Leu His Leu Asn  
1 5 10 15  
Ile Thr Leu Thr Leu Leu Gly Leu Ala Gln Cys Tyr Leu Ala Asn Phe  
20 25 30  
Ser Ser Cys Arg Glu Gly Ser Glu His Tyr Leu Phe Phe Phe Phe  
35 40 45  
Leu Leu Glu Pro Gly Leu His Lys Ala Met Ala Lys Phe Ser  
50 55 60

<210> 840  
<211> 97  
<212> PRT  
<213> Homo sapiens

<400> 840  
Met Ile Leu Leu Leu Ser Leu Phe Gln Gly Val Arg Gly Ser Leu Gly  
1 5 10 15  
Ser Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu  
20 25 30  
Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln  
35 40 45  
Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala  
50 55 60  
Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val  
65 70 75 80  
Asp Phe Ser Asn Leu Asp His Lys Glu Leu Gln Leu Ala Gly Ser Cys  
85 90 95  
Ser

<210> 841  
<211> 49  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 841

Met Asn Val Phe Val Gly Pro Leu Ser Val Ala Ile Val Ile Phe Cys  
 1 5 10 15

Trp Ile Thr Met Tyr Trp Val Ser Ile Val Met Gly Gln Gly Arg Gly  
 20 25 30

Gln Tyr Thr Trp Arg Thr Ile Leu Ser Thr Ser Thr Pro Ser Val Cys  
 35 40 45

Ser

&lt;210&gt; 842

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 842

Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr  
 1 5 10 15

Met Lys Leu Ser Gly His Arg Trp Ser Ser Ser Cys Pro His His Cys  
 20 25 30

Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His  
 35 40 45

Thr Val  
 50

&lt;210&gt; 843

&lt;211&gt; 406

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 843

Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu  
 1 5 10 15

Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr  
 20 25 30

Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val  
 35 40 45

Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu  
 50 55 60

His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro  
 65 70 75 80

Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser  
 85 90 95

Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu  
 100 105 110

Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser  
 115 120 125  
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile  
 130 135 140  
 Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys  
 145 150 155 160  
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg  
 165 170 175  
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu  
 180 185 190  
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn  
 195 200 205  
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu  
 210 215 220  
 Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys  
 225 230 235 240  
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu  
 245 250 255  
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp  
 260 265 270  
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile  
 275 280 285  
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe  
 290 295 300  
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val  
 305 310 315 320  
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys  
 325 330 335  
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His  
 340 345 350  
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp  
 355 360 365  
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu  
 370 375 380  
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu  
 385 390 395 400  
 Arg Asp Arg Asp Glu Leu  
 405

&lt;210&gt; 844

<211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 844  
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp  
           1                  5                  10                  15  
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
                   20                  25                  30  
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
                   35                  40                  45  
 Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
           50                  55                  60

<210> 845  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 845  
 Met Lys Asn Ser Thr Ser Leu Leu Tyr Lys Leu Phe Ser Ser Leu Ser  
           1                  5                  10                  15  
 Val Phe Ile Phe Lys Phe Leu Leu Leu Phe Tyr Thr Leu His Ile Ala  
                   20                  25                  30  
 Leu Gly Val Lys Ile Gln Tyr Lys Pro Leu Ala His Phe Ile Asp His  
           35                  40                  45  
 Ser Cys Ile Gln Gln Val Ser Gln Val Gln Trp Ser Ile Pro  
           50                  55                  60

<210> 846  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 846  
 Met Ser Ser Phe Thr Leu Gly Leu Leu Phe Leu Phe Ile Phe Thr Thr  
           1                  5                  10                  15  
 Ala Glu Asn Tyr Leu Ile Leu Phe Gln Arg Lys Tyr Cys Leu Val Ile  
                   20                  25                  30  
 Phe Trp Gly Glu Phe  
           35

<210> 847  
 <211> 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 847

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met  
 1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg  
 20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly  
 35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg  
 50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys  
 65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser  
 85 90 95

Leu Ile Ala Ser Thr Ala Val  
 100

&lt;210&gt; 848

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 848

Met His Ala Tyr Ala Cys Val Cys Ala Cys Met Leu Val Cys Val Cys  
 1 5 10 15

Val Cys Val Cys Arg Ala Leu Val Ile Pro Thr Glu Gln Arg His Arg  
 20 25 30

Arg Val Ala His Gly Arg Thr Ser Asp Ser Thr Leu Pro Cys Thr Val  
 35 40 45

Lys Ile Trp Pro Ser Glu Arg Gly Asp Gly Arg Gly Glu Arg Gly Glu  
 50 55 60

Arg Arg Arg Gly Thr Asp Trp Arg Gly  
 65 70

&lt;210&gt; 849

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 849

Met Val Trp Cys Gln Cys Leu Cys Pro Leu Cys Ala Cys Trp Glu Glu  
 1 5 10 15

Ala Gln Ala Leu Trp Trp Pro Pro Leu Cys Thr Trp Pro Gly Glu Ala  
 20 25 30

Arg Gly Ser Gly Ala Ser Leu Arg Leu Arg Pro Pro Leu Gln Asn Lys  
                   35                  40                  45

Leu Ser Pro Gly Val Cys Leu Ser Leu Phe Leu Ser Pro Glu Arg Asn  
           50                  55                  60

Ala Gly Val Pro Glu Ala Ser Leu Gln Thr Lys His Pro Cys Thr Ser  
   65                  70                  75                  80

Tyr Gly Ser Gly

<210> 850  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 850  
 Met Ala Leu Gly Ile Gln Lys Arg Phe Ser Pro Glu Val Leu Gly Leu  
   1                  5                  10                  15

Cys Ala Ser Thr Ala Leu Val Trp Val Val Met Glu Val Leu Ala Leu  
           20                  25                  30

Leu Leu Gly Leu Tyr Leu Ala Thr Val Arg Ser Asp Leu Ser Thr Phe  
           35                  40                  45

His Leu Leu Ala Tyr Ser Gly Tyr Lys Tyr Val Gly Met Ile Leu Ser  
   50                  55                  60

Val Leu Thr Gly Leu Leu Phe Gly Ser Asp Gly Tyr Tyr Val Ala Leu  
   65                  70                  75                  80

Ala Trp Thr Ser Ser Ala Leu Met Tyr Phe Ile Val Arg Ser Leu Arg  
           85                  90                  95

Thr Ala Ala Leu Gly Pro Asp Ser Met Gly Gly Pro Val Pro Arg Gln  
           100                  105                  110

Arg Leu Gln Leu Tyr Leu Thr Leu Gly Ala Ala Ala Phe Gln Pro Leu  
   115                  120                  125

Ile Ile Tyr Trp Leu Thr Phe His Leu Val Arg  
   130                  135

<210> 851  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 851  
 Met Arg Lys Glu Glu Gly Ile Ala His Leu Ser Ile Ala Phe Phe Val  
   1                  5                  10                  15

Gln Val Leu Cys Leu Tyr Gln Leu Leu Pro Val Ile Leu Pro Gln Phe  
           20                  25                  30



Asn Leu Gly Ser Gly Lys Asn Met Asn Arg  
           35                          40

<210> 852  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any amino acid

<400> 852  
 Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe  
   1                          5                          10                          15  
 Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa  
                           20                          25                          30  
 Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser  
                           35                          40                          45  
 Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly  
                           50                          55                          60  
 Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu  
   65                          70                          75                          80  
 Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys  
                           85                          90                          95  
 Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser  
                           100                          105                          110  
 Phe Leu Xaa Ile His Trp Leu Leu Pro  
                           115                          120

<210> 853  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 853  
 Met Phe Ala Phe Val Ile Leu Val Phe Ile Thr Ser Met Trp Ala Gln  
     1                    5                    10                    15  
 Thr Ile Ser Leu His Val Ser Ser Ser Glu Glu Val Ser Cys  
                     20                    25                    30

<210> 854  
 <211> 490  
 <212> PRT  
 <213> Homo sapiens

<400> 854  
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro  
     1                    5                    10                    15  
 Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser  
                     20                    25                    30  
 Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln  
                     35                    40                    45  
 Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val  
     50                    55                    60  
 Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly  
     65                    70                    75                    80  
 Pro Gly Pro Gly Gly Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu  
                     85                    90                    95  
 Glu Arg Arg Arg Ser His Cys Thr Leu Glu Asn Glu Pro Leu Arg Gly  
                     100                    105                    110  
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu  
     115                    120                    125  
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Cys Ala  
     130                    135                    140  
 Val Leu Gln Ala Thr Gly Gly Val Glu Pro Ala Gly Trp Lys Glu Met  
     145                    150                    155                    160  
 Arg Cys His Leu Arg Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu  
                     165                    170                    175  
 Val Leu Cys Pro Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr  
                     180                    185                    190  
 Arg Ala Pro Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro  
     195                    200                    205

Gly Thr Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val  
 210 215 220  
 Thr Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly  
 225 230 235 240  
 Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys Cys  
 245 250 255  
 Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala Cys Glu  
 260 265 270  
 Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser Cys Val Thr  
 275 280 285  
 Ser Gly Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly Val Pro Thr Arg  
 290 295 300  
 Arg Pro Pro Ala Thr Ala Thr Ser Pro Val Pro Gln Arg Thr Trp Pro  
 305 310 315 320  
 Ile Arg Val Asp Glu Lys Leu Gly Glu Thr Pro Leu Val Pro Glu Gln  
 325 330 335  
 Asp Asn Ser Val Thr Ser Ile Pro Glu Ile Pro Arg Trp Gly Ser Gln  
 340 345 350  
 Ser Thr Met Ser Thr Leu Gln Met Ser Leu Gln Ala Glu Ser Lys Ala  
 355 360 365  
 Thr Ile Thr Pro Ser Gly Ser Val Ile Ser Lys Phe Asn Ser Thr Thr  
 370 375 380  
 Ser Ser Ala Thr Pro Gln Ala Phe Asp Ser Ser Ser Ala Val Val Phe  
 385 390 395 400  
 Ile Phe Val Ser Thr Ala Val Val Val Leu Val Ile Leu Thr Met Thr  
 405 410 415  
 Val Leu Gly Leu Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln  
 420 425 430  
 Pro Arg Lys Glu Ser Met Gly Pro Pro Gly Leu Glu Ser Asp Pro Glu  
 435 440 445  
 Pro Ala Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val  
 450 455 460  
 Lys Val Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu  
 465 470 475 480  
 Ala Glu Ser Pro Leu Gly Ser Ser Asp Ala  
 485 490

&lt;210&gt; 855

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 855

Met Arg Ile His Phe Lys Ile Leu Val Leu Val Ile Tyr Phe Ile Leu  
 1 5 10 15

Leu Gly Ser Phe Ser Asp Arg Cys Ser Leu Leu Asp Cys Lys Ser Arg  
 20 25 30

Ile Gln Arg Ile Phe Ile Cys Asn Ile Leu Asn Leu Ser Leu Val Ser  
 35 40 45

Cys His Leu Cys Arg Tyr Ser Phe Asp Cys Leu Thr Arg Gly Lys Cys  
 50 55 60

Phe Pro Leu Ser Phe Pro Ala  
 65 70

&lt;210&gt; 856

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 856

Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala  
 1 5 10 15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp  
 20 25 30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu  
 35 40 45

Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val  
 50 55 60

Leu Leu Ser Leu  
 65

&lt;210&gt; 857

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 857

Met Arg Val Phe Ala Leu Leu Pro Pro Phe His Lys Ser Thr Val Leu  
 1 5 10 15

Ser Phe Leu Leu Phe Phe Leu Ser Phe Phe Phe Phe Arg Gln Gly Leu  
 20 25 30

Ala Val Ser Xaa Arg Leu Glu Cys Ser Gly Ala Ile Ile Ala His Cys  
 35 40 45

Ser Leu Asp Leu Leu Asp Ser Ser Asn Pro Pro Ala Leu Thr Ser Gln  
 50 55 60

Leu Leu Arg Arg Pro Arg Gln Glu Asp His Leu Ser Pro Gly Gly  
 65 70 75

<210> 858

<211> 233

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (173)

<223> Xaa equals any amino acid

<400> 858

Met His Arg Gly Lys Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser  
 1 5 10 15

Tyr Leu Ile Val Leu Met Ile Leu Leu Ala Val Val Ile Cys Thr Val  
 20 25 30

Ser Ala Ile Met Cys Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly  
 35 40 45

Pro Arg Lys Ser Met Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe  
 50 55 60

Phe Pro Glu Met Val Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp  
 65 70 75 80

Gly Val Gln Cys Asp Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val  
 85 90 95

Val Val Ser Trp Ile Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile  
 100 105 110

Val Phe Asp Pro Leu Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly  
 115 120 125

Pro Ser His Leu Asp Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu  
 130 135 140

Lys Thr Ala Ala Thr Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys  
 145 150 155 160

Cys Cys Ile Gly Lys Asp Asp His Thr Arg Val Ala Xaa Ser Ser Thr  
 165 170 175

Ala Glu Leu Phe Ser Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser  
 180 185 190

Asp Ile Ala Ala Gly Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile  
 195 200 205

Arg Asn Asn Gln Asp Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala  
 210 215 220

Pro Arg Lys Leu Ile Trp Met Gln Asn  
225 230

<210> 859  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 859  
Met Phe Val Glu Arg Trp Leu Pro Cys Phe Leu Val Val Ala Val Val  
1 5 10 15  
Val Trp Val Phe Ala Cys Gly Pro Val Glu Asp Lys Glu Asp Ser Phe  
20 25 30  
Gly Trp Ser Ser Tyr Phe Leu Ala Ser Gly Leu Pro Pro Leu Leu Phe  
35 40 45  
Glu Ala Ser Gln Thr Arg Thr Val Arg Ala Gly Arg Leu Gly Val Phe  
50 55 60  
Val Cys  
65

<210> 860  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 860  
Met Pro Leu Glu Gly Phe Cys Leu Val Leu Asp Ile Gly Phe Leu Leu  
1 5 10 15  
Val Met Leu Ile Ser Leu Ala Ser Glu Cys Phe Thr Thr Cys Leu Asp  
20 25 30  
Ser Phe Ser Thr Thr Glu Pro Gly Cys Lys Phe Tyr Lys Leu Leu His  
35 40 45  
Ser Val Ser Leu Leu Asn Ile Asn Phe Asn Val Lys Ser Leu Leu Cys  
50 55 60  
Ser His Ile  
65

<210> 861  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any amino acid

&lt;400&gt; 861

Met Cys Leu Leu Ala His Leu Phe Cys His His Leu Leu Ile Leu Leu  
 1 5 10 15

Pro Val Ile Glu Xaa Leu Leu Cys Thr Arg His Trp Ala Arg Gly Ile  
 20 25 30

Leu

&lt;210&gt; 862

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 862

Met Thr Lys Arg Arg Lys Pro Arg Tyr Arg Phe Ile Phe Ala Leu Tyr  
 1 5 10 15

Ala Leu Arg Leu Val Phe Leu Phe Arg Ala Val Thr Asn Thr Asp Ala  
 20 25 30

Ser Arg Leu Arg Ala Lys Arg Gly Glu Cys Pro Tyr  
 35 40

&lt;210&gt; 863

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 863

Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu  
 1 5 10 15

Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp  
 20 25 30

Gly Leu Tyr Glu Tyr Arg Ile Gly Asp Met Val Asp Gln Lys Ala Thr  
 35 40 45

Phe Cys Val Gln Lys Gln Glu Cys Leu Phe Pro Leu Gly Ser Trp Val  
 50 55 60

Xaa Arg Val Glu Gly Gly Ala Phe Ala Arg Glu Pro Pro Ser Ser Thr  
 65 70 75 80

Gln Tyr Phe Pro Val Ser Cys Leu Tyr Gln  
 85 90

<210> 864

<211> 40

<212> PRT

<213> Homo sapiens

<400> 864

Met Ser Pro Phe Asn Cys Cys Pro Phe Asn Tyr Thr Leu Ile Tyr Ile  
 1 5 10 15

Ile Leu Leu Met Leu Ile Tyr Val Tyr Ile Ser Ser Val His Ser Leu  
 20 25 30

Val Asp Ser Asp Leu Leu Asn Gly  
 35 40

<210> 865

<211> 36

<212> PRT

<213> Homo sapiens

<400> 865

Met Gly Cys Thr Ala Leu Leu Leu Leu Phe His Leu Cys Val Pro Cys  
 1 5 10 15

Glu Pro Tyr Gly Thr His Glu Lys Glu Leu Val Pro Gly Leu Tyr Phe  
 20 25 30

Leu Val Tyr Arg  
 35

<210> 866

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any amino acid

<400> 866

Met Val Ser Phe Val Gly Ile Cys Leu Leu Leu Gly Ser Phe Phe Ser  
 1 5 10 15

Pro Ser Leu Gln Gly Thr Ile Trp His His Pro Ala Lys Pro Asp Gly  
 20 25 30

Ser Gly His Gly Leu Pro Ser Phe Ala Val Ile Met Gly Lys Gln Val



35 40 45  
 Val Pro Thr Val Tyr Trp Arg Met Pro Tyr Pro Arg Arg Gly Gly Pro  
 50 55 60

Gly Thr Xaa Phe Ala Leu  
 65 70

<210> 867  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 867  
 Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser  
 1 5 10 15  
 Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser  
 20 25 30  
 Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr  
 35 40 45

<210> 868  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 868  
 Met Thr Leu Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro  
 1 5 10 15  
 Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp Val Val Val Tyr Ser  
 20 25 30  
 Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn  
 35 40 45  
 Val Tyr Ala Leu Ala Val Lys Lys Ser Val Cys Asn Val Ser Glu Trp  
 50 55 60  
 Ser Leu Val Ile Cys His Pro Met Pro Ile  
 65 70

<210> 869  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 869  
 Met Gln Pro Trp Ala Gly Leu Cys Pro Leu Leu Val Leu Trp Ile Ser  
 1 5 10 15  
 Gly His Leu His Cys Ile Ser Ala Leu Leu Gln Glu Arg Gly Val Gly  
 20 25 30

Val Ser Leu Ser Ser Arg Ser Asp Ala Cys Lys Ala Ala His Arg Ile  
           35                    40                    45

Gly Thr Ser Ser Ser  
       50

<210> 870

<211> 82

<212> PRT

<213> Homo sapiens

<400> 870

Met Ala Ile Ser Cys Trp Ala Ser Leu Thr Val Lys Ser Leu Tyr Cys  
       1                    5                    10                    15

Leu Leu Gly Phe Trp Trp Glu Ala Val Ile Ser Ser Asn Glu Leu Pro  
           20                    25                    30

Leu Pro Trp Ile Cys Gln Glu Ala Asp Gly Asn Leu Ala Asn Ser Gly  
           35                    40                    45

Arg Tyr Gln Ala Pro Ser Ser Ala Pro Val Thr Leu Phe Tyr Thr Cys  
           50                    55                    60

Gly Ser Thr Thr Val Cys Ser Glu Gly Gln Ser Leu Pro Leu Leu Cys  
       65                    70                    75                    80

Phe Ser

<210> 871

<211> 57

<212> PRT

<213> Homo sapiens

<400> 871

Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro  
       1                    5                    10                    15

Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu  
           20                    25                    30

Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr  
           35                    40                    45

Arg Pro Ile Pro Ser Phe Leu Lys Ile  
       50                    55

<210> 872

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
 <222> (38)  
 <223> Xaa equals any amino acid

<400> 872

Met Pro His Ile Phe Val Ser Gly Asn Phe Ser Leu Leu Ala Leu Phe  
 1 5 10 15  
 Leu Leu Ser Ala Asn Phe Ile Val Glu Val Gln Ser Trp Leu Leu Leu  
 20 25 30  
 Leu Leu Phe Phe Ile Xaa Leu Gly Arg Ser Tyr Asn Phe Tyr Leu Leu  
 35 40 45  
 Cys Asp Ser Ile Ile Phe  
 50

<210> 873  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 873

Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
 1 5 10 15  
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr  
 20 25 30  
 Gln Ala Cys Leu  
 35

<210> 874  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any amino acid

<400> 874

Met Arg Met Arg Val Ala Val Ala Pro Arg Pro His Gln His Leu Val  
 1 5 10 15  
 Val Ser Val Ser Trp Ile Leu Ala Ile Leu Ile Ser Val Ser Gly Tyr  
 20 25 30  
 His Cys Phe His Leu Gln Phe Ser Tyr Met Val Xaa Asn Ile Phe Pro  
 35 40 45  
 His Val Tyr Leu Ser Ser Ala Tyr Leu Leu Arg Pro Val Ile Cys Ser  
 50 55 60  
 Asp Leu Leu Pro Val Phe Val Cys Leu His Val Cys Leu Cys Leu Ile  
 65 70 75 80

Phe

<210> 875  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 875  
 Met Cys Val Val Cys Val Cys Val Trp Cys Met Cys Val Cys Gly Val  
 1 5 10 15  
 Cys Val Cys Leu Cys Val Cys Gly Val Cys Met Cys Ile Ser Leu Asn  
 20 25 30  
 Glu Lys Leu Ala Pro Met Ile Met Glu Leu Thr Thr Pro Lys Val Cys  
 35 40 45  
 Arg Gln Gln Ala Gly Gly Pro Gly Gly Pro Val Val Trp Leu Gln Pro  
 50 55 60  
 Val Ser Glu Gly Leu Arg Thr Arg Arg Ala Gly Gly Ala Ala Ala Val  
 65 70 75 80

<210> 876  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 876  
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser  
 1 5 10 15  
 Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys  
 20 25 30  
 Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile  
 35 40 45  
 Asn Arg Thr Ala Asn  
 50

<210> 877  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 877  
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser  
 1 5 10 15

Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly  
                   20                  25                  30  
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu  
                   35                  40                  45  
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu  
           50                  55                  60  
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu  
   65                  70                  75                  80

<210> 878  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 878  
 Met Arg Leu Leu Lys Asn Val Leu Thr Gln Met Leu Ile Ile Ser Phe  
   1                  5                  10                  15  
 Ser Thr Cys Ser Cys Leu Phe Ser Leu Phe Cys Ala Val Ile Thr Glu  
                   20                  25                  30  
 Cys Leu Lys Leu Gly Asn Leu Tyr  
           35                  40

<210> 879  
 <211> 320  
 <212> PRT  
 <213> Homo sapiens

<400> 879  
 Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro  
   1                  5                  10                  15  
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly  
                   20                  25                  30  
 Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn  
           35                  40                  45  
 Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr  
   50                  55                  60  
 Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro  
   65                  70                  75                  80  
 Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr  
                   85                  90                  95  
 Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser  
           100                  105                  110

Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp  
 115 120 125  
 Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn  
 130 135 140  
 Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp  
 145 150 155 160  
 Cys Pro Ser Met Gln Glu Gln His Ser Ile Asp Asp Glu Tyr Ala Pro  
 165 170 175  
 Ala Val Phe Gln Leu Asp Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly  
 180 185 190  
 Phe Ala Gln Trp Arg Pro Val Ala Tyr Ser Gln Lys Pro Gly Gly Arg  
 195 200 205  
 Glu Ser Ala Leu Pro Cys Gln Ala Ser Pro Leu His Pro Ala Leu Ala  
 210 215 220  
 Tyr Ser Leu Pro Gln Ser Pro Ile Val Arg Ala Phe Phe Gly Ser Gln  
 225 230 235 240  
 Asn Asn Phe Cys Ala Phe Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro  
 245 250 255  
 Gly Tyr Trp Asp Gln His Tyr Leu Ser Trp Ser Met Leu Leu Gly Val  
 260 265 270  
 Gly Phe Pro Pro Val Asp Gly Leu Ser Pro Leu Val Leu Gly Ile Met  
 275 280 285  
 Ala Val Ala Leu Gly Ala Pro Gly Leu Met Leu Leu Gly Gly Gly Leu  
 290 295 300  
 Val Leu Leu Leu His His Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn  
 305 310 315 320

&lt;210&gt; 880

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 880

Met Arg Arg Met Arg Met Lys Ser Leu Ser Pro Arg Arg Ser Trp Trp  
 1 5 10 15  
 Thr Leu Trp Leu Gly Gln Gly Val Leu Gly Ala Ala Leu Lys Ala Asn  
 20 25 30  
 Thr Leu Trp Ile Ala Met Arg Arg Arg Met Met Met Gly Gly Pro  
 35 40 45  
 Ala Asn Met Thr Ser Trp Pro Gln Arg Met  
 50 55

<210> 881  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 881  
 Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr  
     1                    5                    10                    15  
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn Cys Phe Asn Met  
                     20                    25                    30  
 Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg  
             35                    40                    45  
 Arg Ala Pro Thr Gly Pro Trp Leu Ala Cys Thr Tyr Arg Gln Ser Cys  
     50                    55                    60  
 Ser Gly His Leu Pro Ser Val Val Gly Leu Leu Leu Phe Arg Arg Tyr  
     65                    70                    75                    80  
 Ser Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu  
                     85                    90                    95  
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Ser Ser Gln  
             100                    105                    110  
 Arg Pro Ser  
     115

<210> 882  
 <211> 402  
 <212> PRT  
 <213> Homo sapiens

<400> 882  
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly  
     1                    5                    10                    15  
 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro  
             20                    25                    30  
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
     35                    40                    45  
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
     50                    55                    60  
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
     65                    70                    75                    80  
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr  
             85                    90                    95  
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val  
     100                    105                    110

Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser  
 115 120 125  
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val  
 130 135 140  
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr  
 145 150 155 160  
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp  
 165 170 175  
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp  
 180 185 190  
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu  
 195 200 205  
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His  
 210 215 220  
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr  
 225 230 235 240  
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met  
 245 250 255  
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile  
 260 265 270  
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro  
 275 280 285  
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr  
 290 295 300  
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu  
 305 310 315 320  
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys  
 325 330 335  
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met  
 340 345 350  
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser  
 355 360 365  
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp  
 370 375 380  
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg  
 385 390 395 400  
 Pro Leu

&lt;210&gt; 883



<211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 883  
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val  
 1 5 10 15  
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe  
 20 25 30  
 Ala Ser Pro Pro Thr Thr Phe Met Asp Ile Gln Cys Cys Phe Ala Leu  
 35 40 45  
 Gln Leu Glu Arg Arg Asp Gly Gln Leu Val Thr Leu Ser His Ile Ala  
 50 55 60  
 Thr Phe Ile Cys Ser Gly Lys Lys Leu Asp Arg Trp  
 65 70 75

<210> 884  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 884  
 Met Ala Val Pro Leu Phe Leu Tyr Ile Phe Thr Leu Leu Pro Leu Leu  
 1 5 10 15  
 Pro Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser  
 20 25 30  
 Ser Ser Ser Glu Ser Lys Ser Ser Leu  
 35 40

<210> 885  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 885  
 Met Phe Ile Val Ala Leu Leu Ile Leu His Trp Ala Leu Gly Gly Thr  
 1 5 10 15  
 Val Met Ser Lys  
 20

<210> 886  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 886  
 Ile Tyr Ser Ser Gly Tyr Phe Gln Ile Tyr Asn Met Leu Leu Leu Thr  
 1 5 10 15

Ile Leu Ile Leu Leu Cys Asn Arg Thr Pro Glu Leu Ile Pro Gly Phe  
                   20                                  25                                  30

Tyr Ile Arg  
                   35

<210> 887  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 887  
 Gly Thr Arg Leu Pro Thr Asn Val Arg Gly Ile Met Val Trp Phe Ser  
   1                                  5                                  10                                  15

Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile Leu Gly Ala Arg Gly  
                   20                                  25                                  30

Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg His Cys Gly Leu Val  
                   35                                  40                                  45

Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala Asp Val Leu Ala Val  
                   50                                  55                                  60

His Ser Gly Gln Val Ser His Ser Pro Glu Pro Gln Arg Leu Tyr Gln  
   65                                  70                                  75                                  80

Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro His Gly Val Val Ser  
                   85                                  90                                  95

Ala Val Asn Glu Ile Met Tyr Met Lys His Leu Val Tyr Leu Ala Pro  
                   100                                  105                                  110

Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr Asn Lys Met Glu Leu  
                   115                                  120                                  125

Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg Gln Ile Leu Gly Val  
                   130                                  135                                  140

Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro Ser Leu Phe Gly  
   145                                  150                                  155

<210> 888  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 888  
 Met Val Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln  
   1                                  5                                  10                                  15

Ile Leu Phe Ser Val Leu Lys Val Thr Arg Asn Leu Lys Glu Leu Asp  
                   20                                  25                                  30

Leu Ser Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys  
                   35                                  40                                  45

Thr Leu Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly  
 50 55 60  
 Cys Gly Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg  
 65 70 75 80  
 Ala Asn Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr  
 85 90 95  
 Asp Ala Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys  
 100 105 110  
 Lys Leu Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys  
 115 120 125  
 Cys Gln Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu  
 130 135 140  
 Leu Asp Leu Gln Gln Asn Asn Leu Asp Asp Val Gly Val Arg Leu Leu  
 145 150 155 160  
 Cys Glu Gly Leu Ser Ile Leu Pro Ala Asn Ser Tyr Ala Trp Gly Trp  
 165 170 175  
 Thr Arg Gln Leu  
 180

<210> 889  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

<400> 889  
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu  
 1 5 10 15  
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
 20 25 30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg  
 35 40 45  
 Arg Pro Val Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
 50 55 60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
 65 70 75 80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
 85 90 95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
 100 105 110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
 115 120 125  
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu

130	135	140
Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser		
145	150	155 160
Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala		
	165	170 175
Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val		
	180	185 190
Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala		
	195	200 205
Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp		
	210	215 220
Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val		
	225	230 235 240
Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe		
	245	250 255
Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg		
	260	265 270
Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu		
	275	280 285
Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala		
	290	295 300
Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val		
	305	310 315 320
Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr		
	325	330 335
Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe		
	340	345 350
Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser		
	355	360 365
His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys		
	370	375 380
Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln		
	385	390 395 400
His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe		
	405	410 415
Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu		
	420	425 430
Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala		
	435	440 445
Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn		
	450	455 460

Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
 465 470 475 480

Gln Ile His Arg

<210> 890

<211> 410

<212> PRT

<213> Homo sapiens

<400> 890

Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala  
 1 5 10 15

Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val  
 20 25 30

Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala  
 35 40 45

Arg Gly Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly  
 50 55 60

Gly Pro Val Pro Glu Val Leu Arg Asn Tyr Met Asp Ala Gln Tyr Tyr  
 65 70 75 80

Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe  
 85 90 95

Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu  
 100 105 110

Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Gly Lys Ser  
 115 120 125

Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser  
 130 135 140

Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys  
 145 150 155 160

Lys Ser Gly Leu Ser Ser Leu Ala Gly Val Lys Val Glu Arg Gln Thr  
 165 170 175

Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala Ala Lys  
 180 185 190

Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val Asn Asn  
 195 200 205

Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val Glu Lys  
 210 215 220

Asn Ile Phe Ser Phe Tyr Leu Asn Arg Asp Pro Gly Ala Gln Pro Gly  
 225 230 235 240

Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys Gly Pro

	245		250		255
Leu Ser Tyr	Leu Asn Val Thr Arg	Lys Ala Tyr Trp Gln Val His Met			
	260	265	270		
Glu Gln Val	Asp Val Gly Ser Ser	Leu Thr Leu Cys Lys Gly Gly Cys			
	275	280	285		
Glu Ala Ile	Val Asp Thr Gly Thr Ser	Leu Ile Val Gly Pro Val Asp			
	290	295	300		
Glu Val Arg	Glu Leu Gln Lys Ala Ile Gly	Ala Val Pro Leu Ile Gln			
305	310	315	320		
Gly Glu Tyr	Met Ile Pro Cys Glu Lys Val	Ser Thr Leu Pro Glu Val			
	325	330	335		
Thr Leu Thr	Leu Gly Gly Lys Pro Tyr Lys	Leu Ser Ser Glu Asp Tyr			
	340	345	350		
Thr Leu Lys	Val Ser Gln Gly Gly Lys Ser	Ile Cys Leu Ser Gly Phe			
	355	360	365		
Met Gly Met	Asp Ile Pro Pro Pro Gly Gly	Pro Leu Trp Ile Leu Gly			
	370	375	380		
Asp Val Phe	Ile Gly Arg Tyr Tyr Thr Val	Phe Asp Arg Asp Gln Asn			
385	390	395	400		
Arg Val Gly	Leu Ala Glu Ala Thr Arg Leu				
	405	410			

&lt;210&gt; 891

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 891

Met	Leu	Val	Leu	Phe	Lys	Phe	Leu	Pro	Leu	Thr	Ser	Ser	Gly	Arg	Phe
1				5					10					15	

Ser	Ser	Val	Thr	Leu	Tyr	His	Arg	Val	His	His	Gln	Xaa	Val	Phe	Ser
		20					25					30			

Gln	Glu	Ala	Lys	Ser	Phe	Ser	Pro	Ala	Ser	Thr	Leu	Asn	Leu	Tyr	Ile
		35					40					45			

Cys	Ser	Ser	Gln	Phe	Gln	Ser	Leu	Gln	Lys	Leu	Tyr	Cys	Gly	Val	Ile
	50					55					60				

Pro	Val	Leu	Arg	Tyr	Ala	Ser	Ile	Glu
65						70		

<210> 892  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 892  
 Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala  
     1                    5                    10                    15  
 Ala Ala Arg Ala Gly Pro Tyr Phe Arg Pro Gly Arg Gly Cys Arg Leu  
                     20                    25                    30  
 Pro Leu Arg Gly Asp Gln Leu Ser Gly Leu Gly Arg Arg Thr Tyr Pro  
                     35                    40                    45  
 Arg Pro His Glu Tyr Leu Ser Pro Ser Asp Leu Pro Lys Ser Trp Asp  
                     50                    55                    60  
 Trp Arg Asn Val Asn Gly Val Asn Tyr Ala Ser Ala Thr Arg Asn Gln  
                     65                    70                    75                    80  
 His Ile Pro Gln Tyr Cys Gly Ser Cys Trp Ala His Gly Ser Thr Ser  
                     85                    90                    95  
 Ala Met Ala Gly Pro Asp Gln His Gln Glu Lys Gly Gly Val Ala Leu  
                     100                    105                    110  
 His Pro Ala Val Arg Ala Ala Arg Pro Arg Leu Arg Gln Arg Gly Leu  
                     115                    120                    125

Leu

<210> 893  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (223)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (236)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (242)  
 <223> Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (244)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 893

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Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro
 1           5           10           15

Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
      20           25           30

Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu
 35           40           45

Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
 50           55           60

Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
 65           70           75           80

Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
      85           90           95

Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile
      100          105          110

Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
      115          120          125

Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
      130          135          140

Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
      145          150          155          160

Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val
      165          170          175

Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu
      180          185          190

Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro
      195          200          205

Trp Tyr Glu Ala Ser Leu Leu Pro Ser Met Gln Ser Leu Xaa Xaa Trp
      210          215          220

Gly Ser Gly Pro Ser Ser Gln Leu Glu Gly Pro Xaa Lys Tyr Ser Ala
      225          230          235          240

Gln Xaa Leu Xaa Lys Asp
      245

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&lt;210&gt; 894

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any amino acid

<400> 894  
 Met Thr Ser Cys Gly Gln Gln Ser Leu Asn Val Leu Ala Val Leu Phe  
   1                  5                  10                  15  
 Ser Leu Leu Phe Ser Ala Val Leu Ser Ala His Phe Arg Val Cys Glu  
                   20                  25                  30  
 Pro Tyr Thr Asp His Lys Gly Arg Tyr His Phe Gly Phe His Cys Pro  
                   35                  40                  45  
 Arg Leu Ser Asp Asn Lys Thr Phe Ile Leu Cys Cys His His Asn Asn  
   50                  55                  60  
 Thr Val Phe Lys Tyr Cys Cys Asn Glu Thr Glu Phe Gln Ala Val Met  
   65                  70                  75                  80  
 Gln Ala Asn Leu Thr Ala Ser Ser Glu Gly Tyr Met His Asn Asn Tyr  
                   85                  90                  95  
 Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe Phe Val Leu Met Leu  
                   100                  105                  110  
 Leu Val Leu Asp Leu Xaa Tyr Xaa Ser Ala Met Asn Tyr Asp Ile Cys  
                   115                  120                  125  
 Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly Arg Trp Met Lys Gln  
   130                  135                  140  
 Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala Pro Arg Pro Gly Gln  
   145                  150                  155                  160  
 Arg Ala Pro Gln Pro Gln Pro Pro Pro Gly Pro Leu Pro Gln Ala Pro  
                   165                  170                  175  
 Gln Ala Val His Thr Leu Arg Gly Asp Ala His Ser Pro Pro Leu Met  
                   180                  185                  190  
 Thr Phe Gln Ser Ser Ser Ala  
                   195

<210> 895  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 895  
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser  
   1                  5                  10                  15

Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu  
 20 25 30  
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly Asp Leu Met  
 35 40 45  
 Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His  
 50 55 60  
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly  
 65 70 75 80  
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys  
 85 90 95  
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly  
 100 105 110  
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn  
 115 120 125  
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe  
 130 135 140  
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val  
 145 150 155 160  
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn  
 165 170 175  
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp  
 180 185 190  
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His  
 195 200 205  
 Asp Glu Leu  
 210

&lt;210&gt; 896

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile  
 1 5 10 15  
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val  
 20 25 30  
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg  
 35 40 45  
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val  
 50 55 60  
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys  
 65 70 75 80

Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly  
                             85                            90                            95

Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg  
                             100                            105                            110

Glu Asn His Arg Pro Lys Lys Pro Lys Ser Cys Thr Arg Leu Pro Gly  
                             115                            120                            125

Leu Pro Lys Leu Glu Pro Ser Ser Thr Leu Lys Gly Gln Asp Ser Trp  
                             130                            135                            140

Gln Met Gly His Gln Gln Asp Lys Thr Leu Trp Ser Trp Ala Ser Thr  
                             145                            150                            155                            160

Gly Gly Ser Ser

<210> 897  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 897  
 Met Pro Leu Glu Glu Ser Phe Glu Ile Val Leu Lys Leu Val Pro Leu  
   1                            5                            10                            15

Leu Gly Leu Glu Leu Phe Phe Phe Leu Phe Ile Ile Asn Gly Tyr Ile  
                             20                            25                            30

Asn Val Tyr Cys Pro Ser Gln Tyr Phe Ile Tyr Ala Lys Asp Ser Leu  
                             35                            40                            45

Ala Gly Leu Ala Leu Ile Pro Gln  
                             50                            55

<210> 898  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 898  
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
   1                            5                            10                            15

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
                             20                            25                            30

Val Ser Gln Lys Arg Gly His Ile  
                             35                            40

<210> 899  
 <211> 624  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

Met Glu Ile Pro Gly Ser Leu Cys Lys Lys Val Lys Leu Ser Asn Asn  
 1 5 10 15  
 Ala Gln Asn Trp Gly Met Gln Arg Ala Thr Asn Val Thr Tyr Gln Ala  
 20 25 30  
 His His Val Ser Arg Asn Lys Arg Gly Gln Val Val Gly Thr Arg Gly  
 35 40 45  
 Gly Phe Arg Gly Cys Thr Val Trp Leu Thr Gly Leu Ser Gly Ala Gly  
 50 55 60  
 Lys Thr Thr Val Ser Met Ala Leu Glu Glu Tyr Leu Val Cys His Gly  
 65 70 75 80  
 Ile Pro Cys Tyr Thr Leu Asp Gly Asp Asn Ile Arg Gln Gly Leu Asn  
 85 90 95  
 Lys Asn Leu Gly Phe Ser Pro Glu Asp Arg Glu Glu Asn Val Arg Arg  
 100 105 110  
 Ile Ala Glu Val Ala Lys Leu Phe Ala Asp Ala Gly Leu Val Cys Ile  
 115 120 125  
 Thr Ser Phe Ile Ser Pro Tyr Thr Gln Asp Arg Asn Asn Ala Arg Gln  
 130 135 140  
 Ile His Glu Gly Ala Ser Leu Pro Phe Phe Glu Val Phe Val Asp Ala  
 145 150 155 160  
 Pro Leu His Val Cys Glu Gln Arg Asp Val Lys Gly Leu Tyr Lys Lys  
 165 170 175  
 Ala Arg Ala Gly Glu Ile Lys Gly Phe Thr Gly Ile Asp Ser Glu Tyr  
 180 185 190  
 Glu Lys Pro Glu Ala Pro Glu Leu Val Leu Lys Thr Asp Ser Cys Asp  
 195 200 205  
 Val Asn Asp Cys Val Gln Gln Val Val Glu Leu Leu Gln Glu Arg Asp  
 210 215 220  
 Ile Val Pro Val Asp Ala Ser Tyr Glu Val Lys Glu Leu Tyr Val Pro  
 225 230 235 240  
 Glu Asn Lys Leu His Leu Ala Lys Thr Asp Ala Glu Thr Leu Pro Ala  
 245 250 255  
 Leu Lys Ile Asn Lys Val Asp Met Gln Trp Val Gln Val Leu Ala Glu  
 260 265 270  
 Gly Trp Ala Thr Pro Leu Asn Gly Phe Met Arg Glu Arg Glu Tyr Leu  
 275 280 285  
 Gln Cys Leu His Phe Asp Cys Leu Leu Asp Gly Gly Val Ile Asn Leu  
 290 295 300  
 Ser Val Pro Ile Val Leu Thr Ala Thr His Glu Asp Lys Glu Arg Leu

305		310		315		320
Asp Gly Cys Thr	Ala Phe Ala Leu Met Tyr Glu Gly Arg Arg Val Ala					
	325			330		335
Ile Leu Arg Asn Pro Glu Phe Phe Glu His Arg Lys Glu Glu Arg Cys						
	340		345			350
Ala Arg Gln Trp Gly Thr Thr Cys Lys Asn His Pro Tyr Ile Lys Met						
	355		360			365
Val Met Glu Gln Gly Asp Trp Leu Ile Gly Gly Asp Leu Gln Val Leu						
	370		375		380	
Asp Arg Val Tyr Trp Asn Asp Gly Leu Asp Gln Tyr Arg Leu Thr Pro						
	385		390		395	400
Thr Glu Leu Lys Gln Lys Phe Lys Asp Met Asn Ala Asp Ala Val Phe						
		405		410		415
Ala Phe Gln Leu Arg Asn Pro Val His Asn Gly His Ala Leu Leu Met						
	420		425			430
Gln Asp Thr His Lys Gln Leu Leu Glu Arg Gly Tyr Arg Arg Pro Val						
	435		440		445	
Leu Leu Leu His Pro Leu Gly Gly Trp Thr Lys Asp Asp Asp Val Pro						
	450		455		460	
Leu Met Trp Arg Met Lys Gln His Ala Ala Val Leu Glu Glu Gly Val						
	465		470		475	480
Leu Asn Pro Glu Thr Thr Val Val Ala Ile Phe Pro Ser Pro Met Met						
		485		490		495
Tyr Ala Gly Pro Thr Glu Val Gln Trp His Cys Arg Ala Arg Met Val						
	500		505			510
Ala Gly Ala Asn Phe Tyr Ile Val Gly Arg Asp Pro Ala Gly Met Pro						
	515		520			525
His Pro Glu Thr Gly Lys Asp Leu Tyr Glu Pro Ser His Gly Ala Lys						
	530		535		540	
Val Leu Thr Met Ala Pro Gly Leu Ile Thr Leu Glu Ile Val Pro Phe						
	545		550		555	560
Arg Val Ala Ala Tyr Asn Lys Lys Lys Lys Arg Met Asp Tyr Tyr Asp						
		565		570		575
Ser Glu His His Glu Asp Phe Glu Phe Ile Ser Gly Thr Arg Met Arg						
	580		585			590
Lys Leu Ala Arg Glu Gly Gln Lys Pro Pro Glu Gly Phe Met Ala Pro						
	595		600			605
Lys Ala Trp Thr Val Leu Thr Glu Tyr Tyr Lys Ser Leu Glu Lys Ala						
	610		615		620	

<210> 900  
 <211> 967  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (169)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (293)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (297)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (547)  
 <223> Xaa equals any amino acid

<400> 900  
 Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser  
     1                    5                    10                    15  
 Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro  
             20                    25                    30  
 Val Pro Thr Leu Leu Leu Leu Xaa Ala Ala Leu Leu Xaa Val Ser Asp  
             35                    40                    45  
 Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu  
             50                    55                    60  
 Leu Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala  
             65                    70                    75                    80  
 Phe Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu  
                     85                    90                    95  
 Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu  
             100                    105                    110  
 Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr

115	120	125
Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly 130 135 140		
Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro 145 150 155 160		
Leu Pro Ala Ala Ser Glu Arg Leu Xaa Thr Ala Ala Pro Gly Glu Lys 165 170 175		
Pro Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly 180 185 190		
Asp Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr 195 200 205		
Gly Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp 210 215 220		
Glu Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly 225 230 235 240		
Gln Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser 245 250 255		
His Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu 260 265 270		
Phe His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val 275 280 285		
Ala Ala Arg Leu Xaa Lys His Pro Xaa Ile Arg Asn Ser Val Ser Leu 290 295 300		
Val Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu 305 310 315 320		
Val Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln 325 330 335		
Lys Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr 340 345 350		
Ala Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp 355 360 365		
Thr Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser 370 375 380		
Cys Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala 385 390 395 400		
His Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln 405 410 415		
Cys Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser 420 425 430		
Met Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala 435 440 445		

Tyr Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met  
 450 455 460  
 Asp Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr  
 465 470 475 480  
 Ser Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser  
 485 490 495  
 Lys His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr  
 500 505 510  
 Gly Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp  
 515 520 525  
 Ala Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys  
 530 535 540  
 Cys Val Xaa Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly  
 545 550 555 560  
 Ser Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly  
 565 570 575  
 Gly Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys  
 580 585 590  
 Asn Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys  
 595 600 605  
 Asn Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu  
 610 615 620  
 Gln Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly  
 625 630 635 640  
 Pro Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp  
 645 650 655  
 Arg Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val  
 660 665 670  
 Leu Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr  
 675 680 685  
 Ser Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile  
 690 695 700  
 Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn  
 705 710 715 720  
 Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro  
 725 730 735  
 Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu  
 740 745 750  
 Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu  
 755 760 765



Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr  
 770 775 780  
 Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg  
 785 790 795 800  
 Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro  
 805 810 815  
 Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu  
 820 825 830  
 Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser  
 835 840 845  
 Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly  
 850 855 860  
 Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu  
 865 870 875 880  
 Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val  
 885 890 895  
 Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp  
 900 905 910  
 Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr  
 915 920 925  
 Lys Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser  
 930 935 940  
 His Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe  
 945 950 955 960  
 Cys Thr Met Ala Glu Cys Ser  
 965

&lt;210&gt; 901

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

Met His Pro Ala Arg Lys Leu Leu Ser Leu Leu Phe Leu Ile Leu Met  
 1 5 10 15  
 Gly Thr Glu Leu Thr Gln Asp Ser Ala Ala Pro Asp Ser Leu Leu Arg  
 20 25 30  
 Ser Ser Lys Gly Ser Thr Arg Gly Ser Leu Ala Ala Ile Val Ile Trp  
 35 40 45  
 Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys Thr Pro Gly Ile Phe Arg  
 50 55 60  
 Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu Trp Leu

[illegible]

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<210> 902
<211> 131
<212> PRT
<213> Homo sapiens
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<400> 902
Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
  1                      5                      10                      15

Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
    20                      25                      30

Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
    35                      40                      45

Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
    50                      55                      60

Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr
    65                      70                      75                      80

Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
    85                      90                      95

Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His
    100                      105                      110

Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
    115                      120                      125

Tyr Ile His
    130

```

```
<210> 903
<211> 97
<212> PRT
<213> Homo sapiens
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<400> 903
Met Ser Ile Met Leu Leu Thr Phe Thr Leu His Phe Pro Ser Thr Leu
  1                      5                      10                     15

Leu Ser Tyr Leu Pro Glu Asn Tyr Val Ile Pro Ser Leu Phe Ser Asn
  20                      25                     30

Leu Gln His Trp Ile Cys Cys Val His Ser Gln Leu Val Thr Cys Phe

```

35                      40                      45  
 Val Phe Gln Arg Asp Asn Val Ser Thr Glu Lys Arg Thr Leu Ala His  
     50                      55                      60  
 Ser Asn Thr Ser Ser Ala Thr Ser His His Leu Ser Pro Cys Thr Thr  
     65                      70                      75                      80  
 Gly Asp Gly Leu Pro Ser Ser Trp Gly Gly Gln Thr His Pro Leu Leu  
                             85                      90                      95

His

<210> 904  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 904  
 Met Cys Val Cys Leu Ile Cys Ser Ile Cys Gln Phe Leu Trp Cys Lys  
     1                      5                      10                      15  
 Tyr Ser His Tyr Ser Cys Phe Gln Ala Asn Ile Val Ile Pro Gln Lys  
                             20                      25                      30  
 Met Glu Leu Gly Arg His Asn Gln Asp  
                             35                      40

<210> 905  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 905  
 Met Ser Leu Ala Leu Cys Leu Val Pro Leu Val Arg Glu Gly His  
     1                      5                      10                      15

<210> 906  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 906  
 Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys  
     1                      5                      10                      15  
 Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr  
                             20                      25                      30  
 Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp  
                             35                      40                      45  
 Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys  
                             50                      55                      60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu  
 65 70 75 80  
 Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Asp Ala Gly Arg  
 85 90 95  
 Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu  
 100 105 110  
 Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp  
 115 120 125  
 Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe  
 130 135 140  
 Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu  
 145 150 155 160  
 Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr  
 165 170 175  
 Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu  
 180 185 190  
 Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr  
 195 200 205  
 Leu Lys Val  
 210

<210> 907  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any amino acid

<400> 907  
 Met Ser His His Ala Gly Leu Gly Gly Gly Ile Leu Phe Ser Leu Lys  
 1 5 10 15  
 Ile Ser Phe Phe Ile Ala Leu Ala Val Val Gly Gly Ser Arg Gly Val  
 20 25 30  
 Asn Asp Cys Gln Leu Gly Gly Cys Arg Val Gly Ser Cys Pro Arg Val  
 35 40 45  
 Xaa Val Arg Val Ala  
 50

<210> 908  
 <211> 48  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 908

Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
 1 5 10 15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
 20 25 30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
 35 40 45

&lt;210&gt; 909

&lt;211&gt; 201

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 909

Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe  
 1 5 10 15

Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Leu Ser  
 20 25 30

Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His  
 35 40 45

Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe  
 50 55 60

Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys  
 65 70 75 80

Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys  
 85 90 95

Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe  
 100 105 110

Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu  
 115 120 125

Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val  
 130 135 140

Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe  
 145 150 155 160

Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu  
 165 170 175

Asn Glu Ile Asp Glu Leu Leu Gln Glu Phe Glu Glu Lys Ser Gly Arg  
 180 185 190

Thr Phe Leu His Thr Val Cys Phe Tyr  
 195 200

&lt;210&gt; 910

&lt;211&gt; 420

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 910

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly  
 1 5 10 15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser  
 20 25 30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr  
 35 40 45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile  
 50 55 60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu  
 65 70 75 80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly  
 85 90 95

Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser  
 100 105 110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro  
 115 120 125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro  
 130 135 140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu  
 145 150 155 160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly  
 165 170 175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
 180 185 190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His  
 195 200 205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro  
 210 215 220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His  
 225 230 235 240

Leu Lys Cys Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys  
 245 250 255

Gly Ala Asp Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg  
 260 265 270

Asp Cys Ala Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg

275                      280                      285  
 Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu  
 290                      295                      300  
 Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln  
 305                      310                      315                      320  
 Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr  
 325                      330                      335  
 Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Glu Ser Ala  
 340                      345                      350  
 Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln  
 355                      360                      365  
 Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys  
 370                      375                      380  
 Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met  
 385                      390                      395                      400  
 Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe  
 405                      410                      415  
 Ile Lys Gly Arg  
 420

<210> 911  
 <211> 387  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (228)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (359)  
 <223> Xaa equals any amino acid

<400> 911  
 Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala His  
 1                      5                      10                      15  
 Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp  
 20                      25                      30  
 Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly Ile Pro His  
 35                      40                      45  
 Gly Leu Glu Asp Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly  
 50                      55                      60  
 Ser Arg Val Ala Asn Tyr Cys Ser Thr His Leu Leu Glu His Ile Thr  
 65                      70                      75                      80

Thr Asn Glu Asp Phe Arg Ala Ala Gly Lys Ser Gly Ser Ala Leu Glu  
 85 90 95  
 Leu Ser Val Glu Asn Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Lys  
 100 105 110  
 Ile Asp Glu Tyr Met Arg Asn Phe Ser Asp Leu Arg Asn Gly Met Asp  
 115 120 125  
 Arg Ser Gly Ser Thr Ala Val Gly Val Met Ile Ser Pro Lys His Ile  
 130 135 140  
 Tyr Phe Ile Asn Cys Gly Asp Ser Arg Ala Val Leu Tyr Arg Asn Gly  
 145 150 155 160  
 Gln Val Cys Phe Ser Thr Gln Asp His Lys Pro Cys Asn Pro Arg Glu  
 165 170 175  
 Lys Glu Arg Ile Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val  
 180 185 190  
 Asn Gly Ser Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys  
 195 200 205  
 Cys Val Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro  
 210 215 220  
 Glu Val Tyr Xaa Ile Leu Arg Ala Glu Glu Asp Glu Phe Ile Ile Leu  
 225 230 235 240  
 Ala Cys Asp Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys Glu  
 245 250 255  
 Tyr Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn Val Cys  
 260 265 270  
 Asn Trp Val Val Asp Thr Cys Leu His Lys Gly Ser Arg Asp Asn Met  
 275 280 285  
 Ser Ile Val Leu Val Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu  
 290 295 300  
 Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val  
 305 310 315 320  
 Glu Glu Ile Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala  
 325 330 335  
 His Val Met Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro  
 340 345 350  
 Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser  
 355 360 365  
 Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu  
 370 375 380  
 Asp Pro Trp  
 385



<210> 912  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any amino acid

<400> 912  
 Met Asn Cys Asp Val Leu Trp Cys Val Leu Leu Leu Val Cys Xaa Ser  
 1 5 10 15  
 Leu Phe Ser Ala Val Gly His Gly Leu Trp Ile Trp Arg Tyr Gln Glu  
 20 25 30  
 Lys Lys Ser Leu Phe Tyr Val Pro Lys Ser Asp Gly Ser Ser Leu Ser  
 35 40 45  
 Pro Val Thr Ala Ala Val Asn Ser Phe Leu Thr  
 50 55

<210> 913  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 913  
 Met Glu Ser Leu Pro Glu Asn Lys Pro Leu Val Trp Ser Leu Ala Val  
 1 5 10 15  
 Ser Leu Leu Ala Ile Ile Gly Leu Leu Leu Gly Ser Ser Pro Asp Phe  
 20 25 30  
 Asn Ser Gln Phe Gly Leu Val Asp Ile Pro Val Glu Phe Lys Leu Val  
 35 40 45  
 Ile Ala Gln Val Leu Leu Leu Asp Phe Cys Leu Ala Leu Leu Ala Asp  
 50 55 60  
 Arg Val Leu Gln Phe Phe Leu Gly Thr Pro Lys Leu Lys Val Pro Ser  
 65 70 75 80

<210> 914  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 914  
 Met His Leu Leu Leu Ile Asn Phe Leu Pro Ala Val Cys Ile Ile Leu  
 1 5 10 15

Leu Lys Asn Leu Gln Gln Ala Leu Cys Phe Ala Gln Leu Phe Ile Met  
                   20                  25                  30

Ser Ile Asn Gln Gly Leu Gly Pro Asn Glu Met Ser  
                   35                  40

<210> 915  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 915  
 Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys  
       1                  5                  10                  15

Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile  
                   20                  25                  30

Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro  
                   35                  40                  45

Gln Tyr Phe Pro  
                   50

<210> 916  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any amino acid

<400> 916  
 Met Phe Gly Ala His Arg Xaa Trp Gln Gly Ser Val Leu Leu Phe Leu  
       1                  5                  10                  15

Ser Phe Ala Trp Gly Asn Gly Gly Ser Val Thr Phe Ser Asp Val Pro  
                   20                  25                  30

Arg Val Met Pro Leu Ala Gly Gly Pro Xaa Xaa Gln Val Ser Ser Thr  
                   35                  40                  45

Pro Arg Pro Pro Pro His Gln Val Thr Ser Ser Pro Gly Leu Glu Ser  
                   50                  55                  60

Ala His Ile Val Cys Pro Glu Arg Lys Lys Lys Lys Lys Lys  
 65 70 75

<210> 917  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 917  
 Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys  
 1 5 10 15  
 Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly  
 20 25 30  
 Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu  
 35 40 45  
 Phe Leu Leu Cys Val Trp  
 50

<210> 918  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 918  
 Met Ile Asn Glu Trp Cys Phe Lys Leu Leu Ser Leu Trp Ser Phe Ala  
 1 5 10 15  
 Tyr Ser Asn Cys Lys Leu Ile His Lys Cys Lys Phe Val Phe Leu Lys  
 20 25 30  
 Lys Lys Lys Thr Gly Lys Glu Val Ser Val Lys Gly Ser Lys Leu  
 35 40 45

<210> 919  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 919  
 Met Leu Leu Leu Leu Ile Phe Trp Ile Ala Pro Ala His Gly Pro Thr  
 1 5 10 15  
 Asn Ile Met Val Tyr Ile Ser Ile Cys Ser Leu Leu Gly Ser Phe Thr  
 20 25 30  
 Val Pro Ser Thr Lys Gly Ile Gly Leu Ala Ala Gln Asp Ile Leu His  
 35 40 45  
 Asn Asn Pro Ser Ser Gln Arg Ala Leu Cys Leu Cys Leu Val Leu Leu  
 50 55 60

Ala Val Leu Gly Cys Ser Ile Ile Val Gln Phe Arg Tyr Ile Asn Lys  
65 70 75 80

Ala Leu Glu Cys Phe Asp Ser Ser Val Phe Gly Ala Ile Tyr Tyr Val  
85 90 95

Val Phe Thr Thr Leu Val Leu Leu Ala Ser Ala Ile Leu Phe Arg Glu  
100 105 110

Trp Ser Asn Val Gly Leu Val Asp Phe Leu Gly Met Ala Cys Gly Phe  
115 120 125

Thr Thr Val Ser Val Gly Ile Val Leu Ile Gln Val Phe Lys Glu Phe  
130 135 140

Asn Phe Asn Leu Gly Glu Met Asn Lys Ser Asn Met Lys Thr Asp  
145 150 155

<210> 920

<211> 102

<212> PRT

<213> Homo sapiens

<400> 920

Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu  
1 5 10 15

Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro  
20 25 30

Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg  
35 40 45

Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Arg Leu Leu Gly Gln  
50 55 60

Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro  
65 70 75 80

Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly  
85 90 95

Leu Ala Arg Trp Met Val  
100

<210> 921

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any amino acid

<400> 921

Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser

1                      5                      10                      15  
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu  
                     20                      25                      30  
 Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln  
                     35                      40                      45  
 Arg Arg Ser His Cys  
                     50

<210> 922  
 <211> 472  
 <212> PRT  
 <213> Homo sapiens

<400> 922  
 Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser  
   1                      5                      10                      15  
 Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr  
                     20                      25                      30  
 Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys  
                     35                      40                      45  
 Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr  
                     50                      55                      60  
 Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly  
   65                      70                      75                      80  
 Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln  
                     85                      90                      95  
 Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His  
                     100                      105                      110  
 Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His  
                     115                      120                      125  
 Lys Ile Ala Ile Leu Gly Leu Gly Ser Ser Ile Gly Thr Pro Pro Glu  
                     130                      135                      140  
 Gly Ile Thr Ala Glu Val Leu Val Val Thr Ser Phe Asp Glu Leu Gln  
   145                      150                      155                      160  
 Arg Arg Ala Ser Glu Ala Arg Gly Lys Ile Val Val Tyr Asn Gln Pro  
                     165                      170                      175  
 Tyr Ile Asn Tyr Ser Arg Thr Val Gln Tyr Arg Thr Gln Gly Ala Val  
                     180                      185                      190  
 Glu Ala Ala Lys Val Gly Ala Leu Ala Ser Leu Ile Arg Ser Val Ala  
                     195                      200                      205  
 Ser Phe Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp  
                     210                      215                      220

Gly Val Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu  
 225 230 235 240  
 Met Met Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu  
 245 250 255  
 Lys Met Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val  
 260 265 270  
 Ala Glu Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser  
 275 280 285  
 Gly His Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly  
 290 295 300  
 Gly Gly Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu  
 305 310 315 320  
 Gly Leu Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu  
 325 330 335  
 Glu Gln Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val  
 340 345 350  
 Asn Ile Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala Gly Thr Phe  
 355 360 365  
 Leu Pro Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ile  
 370 375 380  
 Met Glu Glu Val Met Ser Leu Leu Gln Pro Leu Asn Ile Thr Gln Val  
 385 390 395 400  
 Leu Ser His Gly Glu Gly Thr Asp Ile Asn Phe Trp Ile Gln Ala Gly  
 405 410 415  
 Val Pro Gly Ala Ser Leu Leu Asp Asp Leu Tyr Lys Tyr Phe Phe Phe  
 420 425 430  
 His His Ser His Gly Asp Thr Met Thr Val Met Asp Pro Lys Gln Met  
 435 440 445  
 Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp  
 450 455 460  
 Met Glu Glu Met Leu Pro Arg Ser  
 465 470

&lt;210&gt; 923

&lt;211&gt; 359

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 923

Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
 1 5 10 15

Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
 20 25 30

573

Thr Thr Lys Ala Thr Ala Glu  
355

<210> 924  
<211> 379  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (283)  
<223> Xaa equals any amino acid

<220>  
<221> SITE  
<222> (303)  
<223> Xaa equals any amino acid

<220>  
<221> SITE  
<222> (307)  
<223> Xaa equals any amino acid

<400> 924  
Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu  
1 5 10 15  
Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr  
20 25 30  
His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly  
35 40 45  
Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys  
50 55 60  
Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met  
65 70 75 80  
Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val  
85 90 95  
Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val  
100 105 110  
Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln  
115 120 125  
Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu  
130 135 140  
Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu  
145 150 155 160  
Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile  
165 170 175  
Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser  
180 185 190



Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn  
 195 200 205  
 Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu  
 210 215 220  
 Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Val  
 225 230 235 240  
 Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu Asp  
 245 250 255  
 Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu Ser  
 260 265 270  
 Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu Leu  
 275 280 285  
 Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa Tyr  
 290 295 300  
 Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg Met  
 305 310 315 320  
 Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln Arg  
 325 330 335  
 Val Val Pro Ala Leu Ile Thr Leu Ser Ser Asp Pro Glu Ile Ser Val  
 340 345 350  
 Arg Ile Ala Thr Ile Pro Ala Phe Gly Thr Ile Met Glu Thr Val Ile  
 355 360 365  
 Gln Arg Glu Leu Leu Glu Arg Val Lys Met Gln  
 370 375

<210> 925  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 925  
 Met Ser Thr Val Thr Trp Leu Leu Lys Leu Phe Thr Gln Phe Met Phe  
 1 5 10 15  
 Pro Pro Thr Val Ser Asn Ser His Thr Cys Ala Arg Tyr Tyr Val Phe  
 20 25 30  
 Asn Phe Cys Leu Ile Ile Ser Phe Asn Phe Asn Phe His Tyr His Trp  
 35 40 45

<210> 926  
 <211> 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

Met Pro Phe Ala Trp Asn Asp Leu Thr Ser Leu Leu Phe Tyr Leu Ala  
 1 5 10 15

Gly Cys Phe Ser Ser Cys Arg Leu Gly Gln Gly Thr Pro Gly Ser Leu  
 20 25 30

Pro Trp Thr Ser Asn Glu Glu Gly Ile Ile Gln Gly Pro Thr Pro Met  
 35 40 45

Phe Trp Asn Leu Thr Pro Phe Ser Gly Thr  
 50 55

&lt;210&gt; 927

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 927

Met Phe Val Ala Val Phe Tyr Trp Val Leu Thr Val Phe Phe Leu Ile  
 1 5 10 15

Ile Tyr Ile Thr Met Thr Tyr Thr Arg Ile Pro Gln Val Pro Trp Thr  
 20 25 30

Thr Val Gly Leu Cys Phe Asn Gly Ser Ala Phe Val Leu Tyr Leu Ser  
 35 40 45

Ala Ala Val Val Asp Ala Ser Ser Val Ser Pro Glu Lys Asp Ser His  
 50 55 60

Asn Phe Asn Ser Trp Ala Ala Ser Ser Phe Phe Ala Phe Leu Val Thr  
 65 70 75 80

Ile Cys Tyr Ala Gly Asn Thr Tyr Phe Ser Phe Xaa Ala Trp Arg Xaa  
 85 90 95

Arg Thr Ile Gln  
 100

&lt;210&gt; 928

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 928

Met Gly Cys Leu Val Trp Gly Pro Ser Trp Pro Pro Leu Ser Leu Leu  
 1 5 10 15

Ala Ser Leu Leu His Ser Gly Ile Ala Gly Arg Cys Leu Leu Cys Leu  
 20 25 30

Phe Lys Gly Leu Ala Ala Ala Ser Leu Gln Ile Arg Asp Leu Ala  
 35 40 45

Ser Arg Leu Thr Thr Gly Pro Arg Thr Cys Arg Val Gln Pro Pro Pro  
 50 55 60

His Pro Gln Ser Ser Pro Pro Trp Pro Gly Pro Pro Gly Ala Glu Thr  
 65 70 75 80

Cys Arg Pro Leu Ser Arg Thr Val Gly Gly Val Cys Pro Ser Asp Trp  
 85 90 95

Pro Val Ser Trp Leu Leu Leu Pro Pro Leu Pro Glu Val Val Thr Cys  
 100 105 110

Ser Cys Pro Arg Ile Lys Ala Arg Pro Glu Arg Thr Pro Glu Leu Leu  
 115 120 125

Cys Ala Trp Gly Gly Arg Gly Lys His Ser Gln Leu Val Ala  
 130 135 140

&lt;210&gt; 929

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 929

Met Val Tyr Arg Ala Phe Leu Ile Ile Ile Leu Arg Phe Ile Leu Ile  
 1 5 10 15

Phe Leu Phe Lys Leu Asn Tyr Ser Lys Leu Cys Pro Glu Ile Pro Phe  
 20 25 30

Gly Leu Lys Phe Phe Ser Phe Val Cys Ile Lys Val Gln Ile Lys Lys  
 35 40 45

Thr Ser Arg Lys Arg Arg Pro Tyr Leu  
 50 55

&lt;210&gt; 930

&lt;211&gt; 262

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

Met Leu Phe Ser Ala Leu Leu Leu Glu Val Ile Trp Ile Leu Ala Ala  
 1 5 10 15

Asp Gly Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His

20 25 30  
 Trp Pro Ala Ser Tyr Pro Glu Cys Gly Asn Asn Ala Gln Ser Pro Ile  
 35 40 45  
 Asp Ile Gln Thr Asp Ser Val Thr Phe Asp Pro Asp Leu Pro Ala Leu  
 50 55 60  
 Gln Pro His Gly Tyr Asp Gln Pro Gly Thr Glu Pro Leu Asp Leu His  
 65 70 75 80  
 Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu Tyr Leu  
 85 90 95  
 Gly Gly Leu Pro Arg Lys Tyr Val Ala Ala Gln Leu His Leu His Trp  
 100 105 110  
 Gly Gln Lys Gly Ser Pro Gly Gly Ser Glu His Gln Ile Asn Ser Glu  
 115 120 125  
 Ala Thr Phe Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr  
 130 135 140  
 Asp Ser Leu Ser Glu Ala Ala Glu Arg Pro Gln Gly Leu Ala Val Leu  
 145 150 155 160  
 Gly Ile Leu Ile Glu Leu Glu Lys Leu Gln Gly Thr Leu Phe Ser Thr  
 165 170 175  
 Glu Glu Glu Pro Ser Lys Leu Leu Val Gln Asn Tyr Arg Ala Leu Gln  
 180 185 190  
 Pro Leu Asn Gln Arg Met Val Phe Ala Ser Phe Ile Gln Ala Gly Ser  
 195 200 205  
 Ser Tyr Thr Thr Gly Glu Met Leu Ser Leu Gly Val Gly Ile Leu Val  
 210 215 220  
 Gly Cys Leu Cys Leu Leu Leu Ala Val Tyr Phe Ile Ala Arg Lys Ile  
 225 230 235 240  
 Arg Lys Lys Arg Leu Glu Asn Arg Lys Ser Val Val Phe Thr Ser Ala  
 245 250 255  
 Gln Ala Thr Thr Glu Ala  
 260

&lt;210&gt; 931

&lt;211&gt; 399

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp  
 1 5 10 15  
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
 20 25 30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
 35 40 45  
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
 50 55 60  
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
 65 70 75 80  
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
 85 90 95  
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
 100 105 110  
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
 115 120 125  
 Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr  
 130 135 140  
 Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg  
 145 150 155 160  
 Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile  
 165 170 175  
 Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr  
 180 185 190  
 Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser  
 195 200 205  
 Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp  
 210 215 220  
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys  
 225 230 235 240  
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr  
 245 250 255  
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly  
 260 265 270  
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile  
 275 280 285  
 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile  
 290 295 300  
 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala  
 305 310 315 320  
 Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val  
 325 330 335  
 Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn  
 340 345 350  
 Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln

355                      360                      365  
 Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val  
 370                      375                      380  
 Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys  
 385                      390                      395

<210> 932  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 932  
 Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr  
 1                      5                      10                      15  
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe  
 20                      25                      30  
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln  
 35                      40                      45  
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln  
 50                      55                      60  
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Asp  
 65                      70                      75                      80  
 Val Asn Lys Pro Gln Gly Arg Ala Pro Ala Cys Leu Gln Val Gln Tyr  
 85                      90                      95  
 Asn Asp Ile Phe Lys Asn Arg Pro Ala Lys Val Phe Glu Phe Tyr Phe  
 100                      105                      110  
 Ile Gln Glu Asn Pro Gln Leu Phe Lys Leu  
 115                      120

<210> 933  
 <211> 223  
 <212> PRT  
 <213> Homo sapiens

<400> 933  
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly  
 1                      5                      10                      15  
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu  
 20                      25                      30  
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser  
 35                      40                      45  
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg  
 50                      55                      60  
 Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met

65		70		75		80
Cys Gln Ala Phe	Ala Ala Asp Pro Lys Ser Tyr Trp Asn Gln Ala Leu					
	85		90			95
Gln Glu Leu Arg Arg Leu His His Ala Cys Gln Gly Ala Pro Val Leu						
	100		105			110
Arg Pro Ser Val Cys Arg Glu Ala Gly Pro Gln Ala His Met Gln Gln						
	115		120			125
Val Thr Ser Ser Leu Lys Gly Ser Pro Glu Pro Asn Gln Gln Pro Glu						
	130		135			140
Ala Gly Thr Pro Ser Leu Arg Pro Lys Ala Thr Val Lys Leu Thr Glu						
	145		150			155
Ala Thr Gln Leu Gly Lys Asp Ser Met Glu Glu Leu Gly Lys Ala Lys						
	165		170			175
Pro Thr Thr Arg Pro Thr Ala Lys Pro Thr Gln Pro Gly Pro Arg Pro						
	180		185			190
Gly Gly Asn Glu Glu Ala Lys Lys Lys Ala Trp Glu His Cys Trp Lys						
	195		200			205
Pro Phe Gln Ala Leu Cys Ala Phe Leu Ile Ser Phe Phe Arg Gly						
	210		215			220

&lt;210&gt; 934

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 934

Met Leu Phe Trp Lys Phe Gly Ser Phe Leu Phe Phe Cys Leu Pro Leu
1 5 10 15

Thr Leu Phe Cys Ile Leu Asn Glu Arg Gly Ile Met His Leu Glu Gly
20 25 30

Gly Thr Leu Leu Asn Ser Leu Ser His Val Arg His Tyr Leu Arg Leu
35 40 45

Arg Leu Ser Cys Phe Glu Lys Ile Pro Leu His Arg Ser Ile Phe Ile
50 55 60

Phe Leu Leu Leu Leu Leu
65 70

&lt;210&gt; 935

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 935

Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu Phe Arg

1                      5                      10                      15  
 Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu Tyr Thr  
                          20                      25                      30  
 Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro Lys Ile  
                          35                      40                      45  
 Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val Thr Ala  
                          50                      55                      60  
 Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Trp Met Pro Asp Ile Thr  
                          65                      70                      75                      80  
 Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His Ile Gly  
                                  85                      90                      95  
 Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro Glu Glu  
                                  100                      105                      110  
 Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro  
                                  115                      120                      125  
 Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe Ile Lys  
                                  130                      135                      140  
 Thr Lys Ala Glu Glu Lys Val Glu  
                                  145                      150

&lt;210&gt; 936

&lt;211&gt; 217

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 936

Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala Val Leu  
   1                      5                      10                      15  
 Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro Arg Tyr  
                          20                      25                      30  
 Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val Ile Gly  
                          35                      40                      45  
 Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile Lys Asn  
                          50                      55                      60  
 Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr Ile Leu  
                          65                      70                      75                      80  
 Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe Leu Asn  
                                  85                      90                      95  
 Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile Tyr Tyr  
                                  100                      105                      110  
 Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu Phe Lys  
                                  115                      120                      125



Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu Ser Gly  
 130 135 140  
 Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe Lys Asp  
 145 150 155 160  
 Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn Pro Pro  
 165 170 175  
 Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp Lys Asn  
 180 185 190  
 Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro Glu Glu  
 195 200 205  
 Lys Pro Lys Val Phe Ile Ile His Ser  
 210 215

<210> 937  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<400> 937  
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
 1 5 10 15  
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
 20 25 30  
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Arg Ala Glu Ser  
 35 40 45  
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
 50 55 60  
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
 65 70 75 80  
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
 85 90 95  
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
 100 105 110  
 Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val  
 115 120 125  
 Arg Ile Leu Ala Thr Arg His  
 130 135

<210> 938  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 938

Met Thr Val Ile Leu Ile Ile Leu Ile Val Val Met Ala Arg Tyr Cys  
 1 5 10 15  
 Arg Ser Lys Asn Lys Asn Gly Tyr Glu Ala Gly Lys Lys Asp His Glu  
 20 25 30  
 Asp Phe Phe Thr Pro Gln Gln His Asp Lys Ser Lys Lys Pro Lys Lys  
 35 40 45  
 Asp Lys Lys Asn Lys Lys Ser Lys Gln Pro Leu Tyr Ser Ser Ile Val  
 50 55 60  
 Thr Val Glu Ala Ser Lys Pro Asn Gly Gln Arg Tyr Asp Ser Val Asn  
 65 70 75 80  
 Glu Lys Leu Ser Asp Ser Pro Ser Met Gly Arg Tyr Arg Ser Val Asn  
 85 90 95  
 Gly Gly Pro Gly Ser Pro Asp Leu Ala Arg His Tyr Lys Ser Ser Ser  
 100 105 110  
 Pro Leu Pro Thr Val Gln Leu His Pro Gln Ser Pro Thr Ala Gly Lys  
 115 120 125  
 Lys His Gln Ala Val Gln Asp Leu Pro Pro Ala Asn Thr Phe Val Gly  
 130 135 140  
 Ala Gly Asp Asn Ile Ser Ile Gly Ser Asp His Cys Ser Glu Tyr Ser  
 145 150 155 160  
 Cys Gln Thr Asn Asn Lys Tyr Ser Lys Gln Met Arg Leu His Pro Tyr  
 165 170 175  
 Ile Thr Val Phe Gly  
 180

<210> 939  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 939  
 Met Ser Leu Gln Ser Arg Gly Ser Asn  
 1 5

<210> 940  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens

<400> 940  
 Met Val Ile Ser Ile Phe Phe Ser Leu Pro Phe Ser Thr Ser Ala Tyr  
 1 5 10 15  
 Thr Leu Ile Ala Pro Asn Ile Asn Arg Arg Asn Glu Ile Gln Arg Ile  
 20 25 30

Ala Glu Gln Glu Leu Ala Asn Leu Glu Lys Trp Lys Glu Gln Asn Arg  
           35                          40                          45  
 Ala Lys Pro Val His Leu Val Pro Arg Arg Leu Gly Gly Ser Gln Ser  
           50                          55                          60  
 Glu Thr Glu Val Arg Gln Lys Gln Gln Leu Gln Leu Met Gln Ser Lys  
   65                          70                          75                          80  
 Tyr Lys Gln Lys Leu Lys Arg Glu Glu Ser Val Arg Ile Lys Lys Glu  
                           85                          90                          95  
 Ala Glu Glu Ala Glu Leu Gln Lys Met Lys Ala Ile Gln Arg Glu Lys  
                           100                          105                          110  
 Ser Asn Lys Leu Glu Glu Lys Lys Arg Leu Gln Glu Asn Leu Arg Arg  
           115                          120                          125  
 Glu Ala Phe Arg Glu His Gln Gln Tyr Lys Thr Ala Glu Phe Leu Ser  
   130                          135                          140  
 Lys Leu Asn Thr Glu Ser Pro Asp Arg Ser Ala Cys Gln Ser Ala Val  
  145                          150                          155                          160  
 Cys Gly Pro Gln Ser Ser Thr Trp Ala Arg Ser Trp Ala Tyr Arg Asp  
                           165                          170                          175  
 Ser Leu Lys Ala Glu Glu Asn Arg Lys Leu Gln Lys Met Lys Asp Glu  
   180                          185                          190  
 Gln His Gln Lys Ser Glu Leu Leu Glu Leu Lys Arg Gln Gln Gln Glu  
   195                          200                          205  
 Gln Glu Arg Ala Lys Ile His Gln Thr Glu His Arg Arg Val Asn Asn  
   210                          215                          220  
 Ala Phe Leu Asp Arg Leu Gln Gly Lys Ser Gln Pro Gly Gly Leu Glu  
  225                          230                          235                          240  
 Gln Ser Gly Gly Cys Trp Asn Met Asn Ser Gly Asn Ser Trp Gly Ile  
                           245                          250                          255

&lt;210&gt; 941

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 941

Met Arg Thr Phe Leu Thr Phe Val Ile Leu Lys Val Ile Leu Ile Phe  
   1                          5                          10                          15  
 Leu Ser Ser Cys Ala Ser Phe Thr Arg Asn Leu Leu Thr Trp Pro Asn  
           20                          25                          30  
 Asp Val Ser Thr Glu Gln Phe Glu Thr Arg Pro Phe Gly Ser Glu Leu  
           35                          40                          45

Leu Gln Thr Val Ile Asn Val Ser Arg Thr  
 50 55

<210> 942

<211> 286

<212> PRT

<213> Homo sapiens

<400> 942

Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala  
 1 5 10 15

Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu  
 20 25 30

His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn  
 35 40 45

Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile  
 50 55 60

Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu  
 65 70 75 80

Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu  
 85 90 95

Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn  
 100 105 110

Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val  
 115 120 125

Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu  
 130 135 140

Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val  
 145 150 155 160

Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met  
 165 170 175

Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser  
 180 185 190

Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile  
 195 200 205

Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp  
 210 215 220

Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly  
 225 230 235 240

Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn  
 245 250 255

Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys

260 265 270  
 Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
 275 280 285  
  
 <210> 943  
 <211> 950  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 943  
 Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
 1 5 10 15  
 Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
 20 25 30  
 His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
 35 40 45  
 Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
 50 55 60  
 Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
 65 70 75 80  
 Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
 85 90 95  
 Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
 100 105 110  
 Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
 115 120 125  
  
 Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
 130 135 140  
 Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
 145 150 155 160  
 Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
 165 170 175  
 Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
 180 185 190  
 Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
 195 200 205  
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
 210 215 220  
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
 225 230 235 240  
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala  
 245 250 255

Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile  
 260 265 270  
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly  
 275 280 285  
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Ala Gly Arg Pro  
 290 295 300  
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val  
 305 310 315 320  
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala  
 325 330 335  
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr  
 340 345 350  
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala  
 355 360 365  
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr  
 370 375 380  
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr  
 385 390 395 400  
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro  
 405 410 415  
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg  
 420 425 430  
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr  
 435 440 445  
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg  
 450 455 460  
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val  
 465 470 475 480  
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys  
 485 490 495  
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu  
 500 505 510  
 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn  
 515 520 525  
 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu  
 530 535 540  
 Lys Pro Glu Lys Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp  
 545 550 555 560  
 Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser  
 565 570 575

Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Lys Gly Gly Lys Thr Glu  
 580 585 590  
 Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro  
 595 600 605  
 Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg  
 610 615 620  
 Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln  
 625 630 635 640  
 Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys  
 645 650 655  
 Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys  
 660 665 670  
 Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp  
 675 680 685  
 Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu  
 690 695 700  
 Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp  
 705 710 715 720  
 Leu Arg Val Lys Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val  
 725 730 735  
 Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys  
 740 745 750  
 Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu  
 755 760 765  
 Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile  
 770 775 780  
 Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala  
 785 790 795 800  
 Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu  
 805 810 815  
 Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe  
 820 825 830  
 Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His  
 835 840 845  
 Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe  
 850 855 860  
 Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro  
 865 870 875 880  
 Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met  
 885 890 895  
 Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg

900                      905                      910  
 Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln  
           915                      920                      925  
 Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr Arg His His Glu Ser Tyr  
           930                      935                      940  
 His His Gly Tyr Pro Tyr  
 945                      950

<210> 944  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

<400> 944  
 Met Leu Ala Leu Leu Gly Leu Ser Gln Ala Leu Asn Ile Leu Leu Gly  
   1                      5                      10                      15  
 Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys Glu Lys Gly  
           20                      25                      30  
 Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr  
           35                      40                      45  
 Leu Arg Leu Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg Thr Tyr Asn  
           50                      55                      60  
 Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln Arg Leu Tyr  
           65                      70                      75                      80  
 Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala  
           85                      90                      95  
 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp  
           100                      105                      110  
 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn Ser Ile Tyr Glu Leu  
           115                      120                      125  
 Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val Leu Glu Tyr Ala Thr  
           130                      135                      140  
 Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr Ser Gln Ala Gly Phe  
           145                      150                      155                      160  
 Ser Gly Glu Asp Arg Leu Glu Gln Ala Lys Leu Phe Cys Arg Thr Leu  
           165                      170                      175  
 Glu Asp Ile Leu Ala Asp Ala Pro Glu Ser Gln Asn Asn Cys Arg Leu  
           180                      185                      190  
 Ile Ala Tyr Gln Glu Pro Ala Asp Asp Ser Ser Phe Ser Leu Ser Gln  
           195                      200                      205  
 Glu Val Leu Arg His Leu Arg Gln Glu Glu Lys Glu Glu Val Thr Val  
           210                      215                      220



Gly Ser Leu Lys Thr Ser Ala Val Pro Ser Thr Ser Thr Met Ser Gln  
 225 230 235 240

Glu Pro Glu Leu Leu Ile Ser Gly Met Glu Lys Pro Leu Pro Leu Arg  
 245 250 255

Thr Asp Phe Ser  
 260

<210> 945

<211> 247

<212> PRT

<213> Homo sapiens

<400> 945

Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu Leu  
 1 5 10 15

Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val  
 20 25 30

Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly  
 35 40 45

Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu  
 50 55 60

Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly  
 65 70 75 80

Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys  
 85 90 95

Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala  
 100 105 110

Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys  
 115 120 125

Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala  
 130 135 140

Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp  
 145 150 155 160

Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His His Ala  
 165 170 175

Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn  
 180 185 190

Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser  
 195 200 205

Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser  
 210 215 220

Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg  
 225 230 235 240

Ser Val Ala Asn Ile Met Pro  
245

<210> 946  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 946  
Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
1 5 10 15  
Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
20 25 30  
Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
35 40

<210> 947  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 947  
Met Pro Leu Pro Ser Ser Phe Pro Leu Pro Val Phe Leu Ser Ser Cys  
1 5 10 15  
Pro Phe Leu Met Ser Val Ser Ile Gly Phe Leu Ile Leu Val Phe Asn  
20 25 30  
Val His Pro  
35

<210> 948  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 948  
Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Arg Cys Ser  
1 5 10 15  
Cys Ser Ala Leu Leu His Glu Ser Asn His Arg Pro Tyr Leu Asn Lys  
20 25 30  
Trp Ser Leu Leu Ser Thr Asn Lys Thr Leu Phe Arg Asn Asn Arg Gly  
35 40 45  
Leu Asp Leu Val Leu Val Cys  
50 55

<210> 949

<211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 949  
 Met Glu Pro Glu Ser Trp Ala Leu Cys Leu Leu Leu Phe Leu Gly Thr  
 1 5 10 15  
 Ala Leu Gly Tyr Pro Pro Leu Pro Arg His Ser Ser Lys Cys Glu Ile  
 20 25 30  
 Leu Glu Val Arg Leu His Leu Leu Pro Leu Leu Ile Asn Ile Gly Met  
 35 40 45  
 Met Ser Pro Val Ala Ser Pro Phe Val Cys Ser Ile Thr Gly  
 50 55 60

<210> 950  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 950  
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
 1 5 10 15  
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
 20 25 30  
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
 35 40 45  
 Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly  
 50 55 60  
 Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp  
 65 70 75 80  
 Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met  
 85 90 95  
 Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser  
 100 105 110  
 Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp  
 115 120 125  
 Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro  
 130 135 140  
 Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln  
 145 150 155 160  
 Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys  
 165 170 175  
 Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp  
 180 185 190

Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys  
 195 200 205

Glu Tyr Asn Val Tyr Gln His Asp Glu Leu  
 210 215

<210> 951  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 951  
 Met Val Cys Phe Gln Ser Asn Lys Pro Ser Thr Ser Thr Trp Arg Gln  
 1 5 10 15

Leu Ser Phe Val Phe Val Leu Phe Cys Leu Phe Cys Leu Gly His Ala  
 20 25 30

Phe Leu Ser Leu Pro Phe Tyr Ile Leu Ser Ile Ile Ala Met Cys Leu  
 35 40 45

Glu Gln Trp Ala Phe His Asn Met Asn Ser Leu Tyr His His Glu Trp  
 50 55 60

Glu Val Arg Gly Asn Leu Ile His Val Asp Phe Thr Leu Pro  
 65 70 75

<210> 952  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 952  
 Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met  
 1 5 10 15

Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly  
 20 25 30

Ile Phe Ile Gly Pro Glu Gln Phe Leu  
 35 40

<210> 953  
 <211> 606  
 <212> PRT  
 <213> Homo sapiens

<400> 953  
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro  
 1 5 10 15

Ile Leu Ile Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly  
 20 25 30

Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys

35	40	45
Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu		
50	55	60
Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly		
65	70	75
Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg		
	85	90
Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser		
	100	105
Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr		
	115	120
Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr		
	130	135
Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp		
	145	150
Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe		
	165	170
Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu		
	180	185
Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp		
	195	200
Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp		
	210	215
Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile		
	225	230
Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile		
	245	250
Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu		
	260	265
Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn		
	275	280
Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg		
	290	295
Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu		
	305	310
Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His		
	325	330
Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr		
	340	345
Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly		
	355	360

Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser  
 370 375 380  
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala  
 385 390 395 400  
 Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu  
 405 410 415  
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile  
 420 425 430  
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys  
 435 440 445  
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val  
 450 455 460  
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val  
 465 470 475 480  
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr  
 485 490 495  
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly  
 500 505 510  
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp  
 515 520 525  
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu  
 530 535 540  
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met  
 545 550 555 560  
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr  
 565 570 575  
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser  
 580 585 590  
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp  
 595 600 605

&lt;210&gt; 954

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 954

Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu  
 1 5 10 15

Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Pro Thr Gly Ser Ala Xaa  
                   20                  25                  30

His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp  
                   35                  40                  45

Gln Arg Lys Arg Trp Ser Glu Ala  
           50                  55

<210> 955

<211> 88

<212> PRT

<213> Homo sapiens

<400> 955

Met Leu Phe Leu Ser Ala Ser Ile Cys Thr Ser Ala Leu Phe Leu Cys  
       1                  5                  10                  15

Leu Ser Arg Leu Thr Ile Ser Ala Pro His Pro Ala Trp Trp Gly Arg  
                   20                  25                  30

Met Pro Thr His Thr Ser Pro Gly His Leu Leu Glu Leu Gln Pro Arg  
                   35                  40                  45

Gly Met Thr Glu Ser Ile Leu Phe Ser Ile Ser Ala Leu Val Ser Asn  
           50                  55                  60

Ser Trp Gly Lys Met Thr Gln Leu Thr Ser Gly Ser His Ser Trp Ser  
       65                  70                  75                  80

Ser Gly Leu Gln Asn Phe Gln Ala  
                   85

<210> 956

<211> 90

<212> PRT

<213> Homo sapiens

<400> 956

Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly  
       1                  5                  10                  15

Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu  
                   20                  25                  30

Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys  
                   35                  40                  45

His Gly Pro Thr Ala Trp Ser Leu Pro Cys Leu Leu Cys Leu Phe Arg  
           50                  55                  60

Ala Gln Gln Lys Asp Arg Glu Arg Ser Leu Leu Gly Val Pro Leu Pro  
       65                  70                  75                  80

Thr Leu Gln Gly Gly Asn Leu Ser Asp Gly  
                   85                  90

<210> 957  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 957  
 Met Arg Pro Val Cys Ser Leu Gly Trp Ala Gly Trp Pro Gly Leu Val  
 1 5 10 15  
 Cys Gly Leu Arg Ala Leu Leu Gly Pro Ser Leu Phe Pro Val Thr Phe  
 20 25 30  
 Gly Ala Thr Glu Ala Val His Ser Leu Asp Val Cys Ser  
 35 40 45

<210> 958  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 958  
 Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Gly Leu Ser Ala  
 1 5 10 15  
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu  
 20 25 30  
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg  
 35 40 45  
 Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu  
 50 55 60  
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys  
 65 70 75 80  
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe  
 85 90 95  
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu  
 100 105 110  
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala  
 115 120 125  
 Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys  
 130 135 140  
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala  
 145 150 155 160  
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val  
 165 170 175  
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu  
 180 185 190



Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu  
 195 200 205  
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu  
 210 215 220  
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu  
 225 230 235 240  
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile  
 245 250 255  
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg  
 260 265 270  
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg  
 275 280 285  
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser  
 290 295 300  
 Leu  
 305

<210> 959  
 <211> 289  
 <212> PRT  
 <213> Homo sapiens

<400> 959  
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly  
 1 5 10 15  
 Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr  
 20 25 30  
 Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala  
 35 40 45  
 Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp  
 50 55 60  
 Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly  
 65 70 75 80  
 Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp  
 85 90 95  
 Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys  
 100 105 110  
 Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly  
 115 120 125  
 Glu Gln Gly Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile  
 130 135 140  
 Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu

145                      150                      155                      160  
 Glu Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu  
                                  165                      170                      175  
 His Tyr Asn Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile  
                                  180                      185                      190  
 Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala Ile  
                                  195                      200                      205  
 Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn  
                                  210                      215                      220  
 Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu Gln  
                                  225                      230                      235                      240  
 Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn Gly  
                                  245                      250                      255  
 Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe Leu  
                                  260                      265                      270  
 Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp Glu  
                                  275                      280                      285

Leu

<210> 960

<211> 142

<212> PRT

<213> Homo sapiens

<400> 960

Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Leu Gln Glu Gly  
   1                                  5                                  10                                  15  
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala  
                                   20                                  25                                  30  
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu  
                                   35                                  40                                  45  
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val  
                                   50                                  55                                  60  
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro  
                                   65                                  70                                  75                                  80  
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Ser Tyr Ser Leu His  
                                   85                                  90                                  95  
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Leu Pro Ser Ser Ser  
                                   100                                  105                                  110  
 Gln Pro Glu Asn Ile Pro Asp Leu Tyr His Ala Ala Val Gln Ser Met  
                                   115                                  120                                  125

Cys Leu Pro Met Ala Val Arg Ala Pro Asp His Cys Glu Leu  
 130 135 140

<210> 961  
 <211> 282  
 <212> PRT  
 <213> Homo sapiens

<400> 961  
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
 1 5 10 15  
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
 20 25 30  
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
 35 40 45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
 50 55 60  
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
 65 70 75 80  
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala  
 85 90 95  
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser  
 100 105 110  
 Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu  
 115 120 125  
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp  
 130 135 140  
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn  
 145 150 155 160  
 Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu  
 165 170 175  
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser  
 180 185 190  
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val  
 195 200 205  
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu  
 210 215 220  
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His  
 225 230 235 240  
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser  
 245 250 255  
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly  
 260 265 270

Val Ala Val Ser Leu Ser His Ile Arg Asn  
 275 280

<210> 962  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 962  
 Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys  
 1 5 10 15  
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp  
 20 25 30  
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln  
 35 40 45  
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp  
 50 55 60  
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr  
 65 70 75 80  
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu  
 85 90 95  
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn  
 100 105 110  
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Leu Ser Met  
 115 120 125  
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly  
 130 135 140  
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Pro Pro  
 145 150 155 160  
 Trp Gln Pro Ala Met Ser Pro Val Pro Gly Thr Gly Gly Pro Pro Cys  
 165 170 175

Gly Leu

<210> 963  
 <211> 233  
 <212> PRT  
 <213> Homo sapiens

<400> 963  
 Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys  
 1 5 10 15  
 Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His  
 20 25 30

Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val  
           35                          40                          45  
 Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu  
           50                          55                          60  
 Ala Lys Met Ala Lys Ala Trp Ala Asn Gln Cys Lys Phe Glu His Asn  
           65                          70                          75                          80  
 Asp Cys Leu Asp Lys Ser Tyr Lys Cys Tyr Ala Ala Phe Glu Tyr Val  
                           85                          90                          95  
 Gly Glu Asn Ile Trp Leu Gly Gly Ile Lys Ser Phe Thr Pro Arg His  
                           100                          105                          110  
 Ala Ile Thr Ala Trp Tyr Asn Glu Thr Gln Phe Tyr Asp Phe Asp Ser  
                           115                          120                          125  
 Leu Ser Cys Ser Arg Val Cys Gly His Tyr Thr Gln Leu Val Trp Ala  
           130                          135                          140  
 Asn Ser Phe Tyr Val Gly Cys Ala Val Ala Met Cys Pro Asn Leu Gly  
           145                          150                          155                          160  
 Gly Ala Ser Thr Ala Ile Phe Val Cys Asn Tyr Gly Pro Ala Gly Asn  
                           165                          170                          175  
 Phe Ala Asn Met Pro Pro Tyr Val Arg Gly Glu Ser Cys Ser Leu Cys  
                           180                          185                          190  
 Ser Lys Glu Glu Lys Cys Val Lys Asn Leu Cys Lys Asn Pro Phe Leu  
           195                          200                          205  
 Lys Pro Thr Gly Arg Ala Pro Gln Gln Thr Ala Phe Asn Pro Phe Ser  
           210                          215                          220  
 Leu Gly Phe Leu Leu Leu Arg Ile Phe  
           225                          230

&lt;210&gt; 964

&lt;211&gt; 298

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 964

Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr  
           1                          5                          10                          15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro  
                   20                  25                  30  
 Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu  
                   35                  40                  45  
 Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys  
                   50                  55                  60  
 Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln  
                   65                  70                  75                  80  
 Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile  
                   85                  90                  95  
 Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser  
                   100                  105                  110  
 Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu  
                   115                  120                  125  
 Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser  
                   130                  135                  140  
 Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly  
                   145                  150                  155                  160  
 Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu  
                   165                  170                  175  
 Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met  
                   180                  185                  190  
 Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp  
                   195                  200                  205  
 Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg  
                   210                  215                  220  
 Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile  
                   225                  230                  235                  240  
 Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu  
                   245                  250                  255  
 Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser  
                   260                  265                  270  
 Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn  
                   275                  280                  285  
 Asp Phe Lys His Thr Lys Ser Phe Ile Ile  
                   290                  295

&lt;210&gt; 965

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 965

Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val  
 1 5 10 15

Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys Arg Pro Leu  
 20 25 30

Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly  
 35 40 45

&lt;210&gt; 966

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 966

Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro  
 1 5 10 15

Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Ile Glu Pro Leu Arg Ile  
 20 25 30

Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile  
 35 40 45

Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp  
 50 55 60

Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val  
 65 70 75 80

Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys  
 85 90 95

Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser  
 100 105 110

Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser  
 115 120 125

Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly  
 130 135 140

Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala  
 145 150 155 160

Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val  
 165 170 175

Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val  
 180 185 190

Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr  
 195 200 205

Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly  
 210 215 220

Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu

225                      230                      235                      240  
 Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser  
                                  245                                   250                                   255

Arg

<210> 967

<211> 312

<212> PRT

<213> Homo sapiens

<400> 967

Met Pro Pro Pro Arg Val Phe Lys Ser Phe Leu Ser Leu Leu Phe Gln  
   1                                 5                                 10                                 15

Gly Leu Ser Val Leu Leu Ser Leu Ala Gly Asp Val Leu Val Ser Met  
                                  20                                 25                                 30

Tyr Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala Val Ser Leu  
                                  35                                 40                                 45

Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu Tyr Leu Val  
   50                                 55                                 60

Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu Ser Glu Tyr  
   65                                 70                                 75                                 80

His Glu Arg Val Arg Ser Gln Gly Gln Gln Leu Gln Gln Leu Gln Ala  
                                  85                                 90                                 95

Glu Leu Asp Lys Leu His Lys Glu Val Ser Thr Val Arg Ala Ala Asn  
                                  100                                 105                                 110

Ser Glu Arg Val Ala Lys Leu Val Phe Gln Arg Leu Asn Glu Asp Phe  
                                  115                                 120                                 125

Val Arg Lys Pro Asp Tyr Ala Leu Ser Ser Val Gly Ala Ser Ile Asp  
   130                                 135                                 140

Leu Gln Lys Thr Ser His Asp Tyr Ala Asp Arg Asn Thr Ala Tyr Phe  
   145                                 150                                 155                                 160

Trp Asn Arg Phe Ser Phe Trp Asn Tyr Ala Arg Pro Pro Thr Val Ile  
                                  165                                 170                                 175

Leu Glu Pro His Val Phe Pro Gly Asn Cys Trp Ala Phe Glu Gly Asp  
                                  180                                 185                                 190

Gln Gly Gln Val Val Ile Gln Leu Pro Gly Arg Val Gln Leu Ser Asp  
   195                                 200                                 205

Ile Thr Leu Gln His Pro Pro Pro Ser Val Glu His Thr Gly Gly Ala  
   210                                 215                                 220

Asn Ser Ala Pro Arg Asp Phe Ala Val Phe Gly Leu Gln Val Tyr Asp  
   225                                 230                                 235                                 240



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<400> 969
Met Ser Leu Leu Phe Ile Val Ser Leu Leu Glu Leu Gly Pro Met Ala
   1                   5               10              15
```

Leu Leu Ala Glu Arg Lys Ala Met Lys Pro Ser Leu Gly Leu Arg Leu  
                   20                  25                  30  
 Glu Glu Glu Glu Glu Glu Thr Pro Phe Glu Glu Gln Arg Ala Val Ser  
                   35                  40                  45  
 Val Ile Pro Gly Val Pro Val Thr Tyr Leu  
           50                  55

<210> 970  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 970  
 Met Gly Trp Leu Trp Leu Glu Leu Leu Gly Leu Ser Ile Glu Glu Thr  
   1                  5                  10                  15  
 Leu Val Trp Ala Phe Leu Asn Lys Phe Leu Asp Ser Ser Ala Ala Leu  
                   20                  25                  30  
 Leu Trp Arg Ile Leu Gly Lys Ser Asn Leu Ser Thr  
           35                  40

<210> 971  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 971  
 Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly  
   1                  5                  10                  15  
 Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met  
                   20                  25                  30  
 Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala  
           35                  40                  45  
 Asp Glu Leu His Leu Gly Met Gly Cys Pro Ala Asn Arg Ile His Thr  
           50                  55                  60  
 Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr  
   65                  70                  75                  80  
 Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Glu Leu Tyr Phe  
                   85                  90                  95  
 Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys  
           100                  105                  110  
 Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn  
           115                  120                  125  
 Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr  
   130                  135                  140

Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu  
 145 150 155

<210> 972  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 972  
 Met Val Ser Ala Ser Val Phe Val Gly Leu Val Ile Phe Tyr Ile Ala  
 1 5 10 15  
 Phe Cys Leu Leu Trp Pro Leu Val Val Lys Gly Cys Thr Met Ile Arg  
 20 25 30  
 Trp Lys Ile Asn Asn Leu Ile Ala Ser Glu Ser Tyr Tyr Thr Tyr Ala  
 35 40 45  
 Ser Ile Ser Gly Ile Ser Ser Met Pro Ser Leu Arg His Ser Arg Met  
 50 55 60  
 Gly Ser Met Phe Ser Ser Arg Met Thr Glu Asp Arg Ala Glu Pro Lys  
 65 70 75 80  
 Glu Ala Val Glu Arg Gln Leu Met Thr  
 85

<210> 973  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 973  
 Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly  
 1 5 10 15  
 Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu  
 20 25 30  
 Leu Ser Leu Leu Asp Cys  
 35

<210> 974  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 974  
 Met Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly  
 1 5 10 15  
 Ile Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser  
 20 25 30  
 Arg Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile

35                      40                      45  
 Pro Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala  
     50                      55                      60  
 Ser Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe  
     65                      70                      75                      80  
 Gln Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln  
                     85                      90                      95  
 Ile Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile  
                     100                      105                      110  
 Ile Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp  
                     115                      120                      125  
 Glu Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn  
                     130                      135                      140  
 Ser Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro  
     145                      150                      155                      160  
 Ser Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser  
                     165                      170                      175  
 Val Pro Leu Val Pro  
                     180

&lt;210&gt; 975

&lt;211&gt; 822

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 975

Met Ala Ala Ala Val Val Val Ala Glu Gly Asp Ser Asp Ser Arg Pro  
     1                      5                      10                      15  
 Gly Gln Glu Leu Leu Val Ala Trp Asn Thr Val Ser Thr Gly Leu Val  
                     20                      25                      30  
 Pro Pro Ala Ala Leu Gly Leu Val Ser Ser Arg Thr Ser Gly Ala Val  
                     35                      40                      45  
 Pro Pro Lys Glu Glu Glu Leu Arg Ala Ala Val Glu Val Leu Arg Gly  
                     50                      55                      60  
 His Gly Leu His Ser Val Leu Glu Glu Trp Phe Val Glu Val Leu Gln  
     65                      70                      75                      80  
 Asn Asp Leu Gln Ala Asn Ile Ser Pro Glu Phe Trp Asn Ala Ile Ser  
                     85                      90                      95  
 Gln Cys Glu Asn Ser Ala Asp Glu Pro Gln Cys Leu Leu Leu Leu Leu  
                     100                      105                      110  
 Asp Ala Phe Gly Leu Leu Glu Ser Arg Leu Asp Pro Tyr Leu Arg Ser  
                     115                      120                      125

Leu Glu Leu Leu Glu Lys Trp Thr Arg Leu Gly Leu Leu Met Gly Thr  
 130 135 140  
 Gly Ala Gln Gly Leu Arg Glu Glu Val His Thr Met Leu Arg Gly Val  
 145 150 155 160  
 Leu Phe Phe Ser Thr Pro Arg Thr Phe Gln Glu Met Ile Gln Arg Leu  
 165 170 175  
 Tyr Gly Cys Phe Leu Arg Val Tyr Met Gln Ser Lys Arg Lys Gly Glu  
 180 185 190  
 Gly Gly Thr Asp Pro Glu Leu Glu Gly Glu Leu Asp Ser Arg Tyr Ala  
 195 200 205  
 Arg Arg Arg Tyr Tyr Arg Leu Leu Gln Ser Pro Leu Cys Ala Gly Cys  
 210 215 220  
 Ser Ser Asp Lys Gln Gln Cys Trp Cys Arg Gln Ala Leu Glu Gln Phe  
 225 230 235 240  
 His Gln Leu Ser Gln Val Leu His Arg Leu Ser Leu Leu Glu Arg Val  
 245 250 255  
 Ser Ala Glu Ala Val Thr Thr Thr Leu His Gln Val Thr Arg Glu Arg  
 260 265 270  
 Met Glu Asp Arg Cys Arg Gly Glu Tyr Glu Arg Ser Phe Leu Arg Glu  
 275 280 285  
 Phe His Lys Trp Ile Glu Arg Val Val Gly Trp Leu Gly Lys Val Phe  
 290 295 300  
 Leu Gln Asp Gly Pro Ala Arg Pro Ala Ser Pro Glu Ala Gly Asn Thr  
 305 310 315 320  
 Leu Arg Arg Trp Arg Cys His Val Gln Arg Phe Phe Tyr Arg Ile Tyr  
 325 330 335  
 Ala Ser Leu Arg Ile Glu Glu Leu Phe Ser Ile Val Arg Asp Phe Pro  
 340 345 350  
 Asp Ser Arg Pro Ala Ile Glu Asp Leu Lys Tyr Cys Leu Glu Arg Thr  
 355 360 365  
 Asp Gln Arg Gln Gln Leu Leu Val Ser Leu Lys Ala Ala Leu Glu Thr  
 370 375 380  
 Arg Leu Leu His Pro Gly Val Asn Thr Cys Asp Ile Ile Thr Leu Tyr  
 385 390 395 400  
 Ile Ser Ala Ile Lys Ala Leu Arg Val Leu Asp Pro Ser Met Val Ile  
 405 410 415  
 Leu Glu Val Ala Cys Glu Pro Ile Arg Arg Tyr Leu Arg Thr Arg Glu  
 420 425 430  
 Asp Thr Val Arg Gln Ile Val Ala Gly Leu Thr Gly Asp Ser Asp Gly  
 435 440 445  
 Thr Gly Asp Leu Ala Val Glu Leu Ser Lys Thr Asp Pro Ala Ser Leu

450	455	460
Glu Thr Gly Gln Asp Ser	Glu Asp Asp Ser Gly	Glu Pro Glu Asp Trp
465	470	475 480
Val Pro Asp Pro Val Asp	Ala Asp Pro Gly Lys	Ser Ser Ser Lys Arg
485	490	495
Arg Ser Ser Asp Ile Ile	Ser Leu Leu Val Ser	Ile Tyr Gly Ser Lys
500	505	510
Asp Leu Phe Ile Asn Glu	Tyr Arg Ser Leu Leu	Ala Asp Arg Leu Leu
515	520	525
His Gln Phe Ser Phe Ser	Pro Glu Arg Glu Ile	Arg Asn Val Glu Leu
530	535	540
Leu Lys Leu Arg Phe Gly	Glu Ala Pro Met His	Phe Cys Glu Val Met
545	550	555 560
Leu Lys Asp Met Ala Asp	Ser Arg Arg Ile Asn	Ala Asn Ile Arg Glu
565	570	575
Glu Asp Glu Lys Arg Pro	Ala Glu Glu Gln Pro	Pro Phe Gly Val Tyr
580	585	590
Ala Val Ile Leu Ser Ser	Glu Phe Trp Pro Pro	Phe Lys Asp Glu Lys
595	600	605
Leu Glu Val Pro Glu Asp	Ile Arg Ala Ala Leu	Glu Ala Tyr Cys Lys
610	615	620
Lys Tyr Glu Gln Leu Lys	Ala Met Arg Thr Leu	Ser Trp Lys His Thr
625	630	635 640
Leu Gly Leu Val Thr Met	Asp Val Glu Leu Ala	Asp Arg Thr Leu Ser
645	650	655
Val Ala Val Thr Pro Val	Gln Ala Val Ile Leu	Leu Tyr Phe Gln Asp
660	665	670
Gln Ala Ser Trp Thr Leu	Glu Glu Leu Ser Lys	Ala Val Lys Met Pro
675	680	685
Val Ala Leu Leu Arg Arg	Arg Met Ser Val Trp	Leu Gln Gln Gly Val
690	695	700
Leu Arg Glu Glu Pro Pro	Gly Thr Phe Ser Val	Ile Glu Glu Glu Arg
705	710	715 720
Pro Gln Asp Arg Asp Asn	Met Val Leu Ile Asp	Ser Asp Asp Glu Ser
725	730	735
Asp Ser Gly Met Ala Ser	Gln Ala Asp Gln Lys	Glu Glu Glu Leu Leu
740	745	750
Leu Phe Trp Thr Tyr Ile	Gln Ala Met Leu Thr	Asn Leu Glu Ser Leu
755	760	765
Ser Leu Asp Arg Ile Tyr	Asn Met Leu Arg Met	Phe Val Val Thr Gly
770	775	780

Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln  
785 790 795 800

Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg  
805 810 815

Leu Pro Lys Asn Cys Ser  
820

<210> 976

<211> 71

<212> PRT

<213> Homo sapiens

<400> 976

Met Leu Gln Ala Ala Ser Leu Ser Leu Val Thr Trp Val Val Cys Thr  
1 5 10 15

Val Trp Leu Glu Thr Thr Val Pro Pro Ser Leu Pro Glu Pro Pro Met  
20 25 30

Trp Pro Leu Ser Ser Asp Ser Ser Trp Ser Leu Trp Ile Ser Thr Gly  
35 40 45

Met Ala Pro Ala Pro Ser Ser Ser Thr Arg Ser Phe Ser Val Leu Pro  
50 55 60

Glu Ile Cys Phe Cys Leu Trp  
65 70

<210> 977

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any amino acid

<400> 977

Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala Asn Leu  
1 5 10 15

Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val  
20 25 30

Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val His  
35 40 45

Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys  
50 55 60

Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro  
65 70 75 80

Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys  
                             85                            90                            95  
 Gly Val Leu Val Thr  
                             100

<210> 978  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 978  
 Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
   1                            5                            10                            15  
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp  
                             20                            25                            30  
 Ser Lys Asp Glu Glu Val Lys Val Ala Pro Arg Arg Ser Phe Leu Asp  
                             35                            40                            45  
 Phe Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val  
                             50                            55                            60  
 Gln Cys Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu  
   65                            70                            75                            80  
 Ser Ile Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val  
                             85                            90                            95  
 Leu Thr Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg  
                             100                            105                            110  
 His Gln Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr  
                             115                            120                            125  
 Ser Gly Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro  
                             130                            135                            140  
 Leu Gln Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala  
   145                            150                            155                            160  
 Ile Leu Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala  
                             165                            170                            175  
 Pro His Ala Val His Pro Thr Gly Thr Lys Ala Leu  
                             180                            185

<210> 979  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any amino acid



&lt;400&gt; 979

Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala  
 1 5 10 15

Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe  
 20 25 30

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu  
 35 40 45

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His  
 50 55 60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro  
 65 70 75 80

Arg Val Ser Gly

&lt;210&gt; 980

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

Met Leu Gln Glu Val Lys Leu Asp Phe Leu Trp Leu Leu Asn Leu Pro  
 1 5 10 15

Leu Ile Leu Leu Phe Ser Ile Leu Glu Ser Ser Met Lys Ile Cys Thr  
 20 25 30

Asn Ala Met Phe Thr Arg Thr Gly  
 35 40

&lt;210&gt; 981

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 981

Met Trp Thr Ala Arg Arg Cys Thr Glu Thr Val Ala Val Ser Leu Arg  
 1 5 10 15

Ile Phe Pro Leu Val Leu Ala Met Pro Leu Gln Gly Lys Cys Thr Ser  
 20 25 30

Thr Cys Gln Arg Lys Pro Leu Leu Leu Val Phe Ile Phe Val Val Asn  
 35 40 45

Phe Leu Tyr Ile Pro Xaa Ala Ala Phe Leu His  
 50 55

<210> 982  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 982  
 Met Arg Ala Cys Pro Trp Ala Gln Val Pro Leu Tyr Leu Leu Leu Asp  
           1                  5                  10                  15  
 Gly His Leu Ala Val Ser Gln Ala Gly Val Met Ala Gly Val Ser Gly  
                   20                  25                  30  
 Gly Arg Gly Gly Arg Arg Leu Arg Gly Pro Ile Thr Ser Arg Val Ile  
                   35                  40                  45  
 Thr Ser Cys Gln Gln Pro Gly Val Gly Val Trp Val Ser Leu Arg Pro  
           50                  55                  60  
 Glu Leu Leu Asn Leu Glu Ser Leu Gly Val Ala Ala Lys Gly Val Tyr  
           65                  70                  75                  80  
 Asp Lys His Val Ser Leu Asp Ile Ser Gly Glu Arg Ser Gly Ala Leu  
                   85                  90                  95  
 Val Thr Phe Ser Lys Gly Cys Trp Ala Ser Glu Gln Ser Pro Pro Met  
                   100                  105                  110  
 Ser Gln Pro Leu Gln Gly Pro Ser Leu Ser Leu His Pro Arg Pro Ser  
           115                  120                  125  
 Ala Ala Leu Val Met Ser Arg Arg Lys Val Leu Gly Cys Ala Gln Ser  
           130                  135                  140  
 Gln Glu Ser Lys Ile Cys Gln Ala Lys Ala Pro Gly Lys Ser Arg Arg  
           145                  150                  155                  160  
 Ser Leu Gly Trp Pro Pro Gly Cys Gly Ala Ala Arg Ala Lys Thr Val  
                   165                  170                  175  
 Asn Thr Ala Leu Gln Leu Ser Glu Pro Gln Phe Ser Asn Leu  
                   180                  185                  190

<210> 983  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 983  
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
           1                  5                  10                  15  
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
                   20                  25                  30  
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu  
           35                  40                  45

Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
 50 55 60

<210> 984

<211> 362

<212> PRT

<213> Homo sapiens

<400> 984

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
 20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
 35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
 50 55 60

Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
 65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
 85 90 95

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
 100 105 110

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
 115 120 125

Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
 130 135 140

His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
 145 150 155 160

Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
 165 170 175

Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
 180 185 190

Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly  
 195 200 205

Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly  
 210 215 220

Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro  
 225 230 235 240

Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro  
 245 250 255

Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly

260 265 270  
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala  
 275 280 285  
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp  
 290 295 300  
 Ser Gln Ala Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly  
 305 310 315 320  
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu  
 325 330 335  
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly  
 340 345 350  
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu  
 355 360

<210> 985  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 985  
 Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser  
 1 5 10 15  
 Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His  
 20 25 30  
 Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu  
 35 40 45  
 Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu  
 50 55 60  
 Ser Val Thr Lys Thr Phe Leu  
 65 70

<210> 986  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens

<400> 986  
 Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu  
 1 5 10 15  
 Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr  
 20 25 30  
 Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys  
 35 40 45  
 Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys

50                      55                      60  
 Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala  
 65                      70                      75                      80  
 Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile  
                     85                      90                      95  
 Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg  
                     100                      105                      110  
 Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly  
                     115                      120                      125  
 Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu  
                     130                      135                      140  
 Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile  
 145                      150                      155                      160  
 Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile  
                     165                      170                      175  
 Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser  
                     180                      185                      190  
 Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser  
                     195                      200                      205  
 Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr  
                     210                      215                      220  
 Ser Leu Thr Gly Tyr Val  
 225                      230

<210> 987  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 987  
 Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys  
   1                      5                      10                      15  
 Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val  
                     20                      25                      30  
 Ser Ala Gly Pro Ala  
                     35

<210> 988  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 988  
 Met Arg Val Pro Leu Val Leu Ser Trp Ala Phe Val Leu Val Gly Phe

1                      5                      10                      15  
 Ser Gly Val Tyr Leu Ala Ser Glu Ser Phe Trp Phe Pro Pro Ser Leu  
                             20                      25                      30  
 Cys Asp Leu Thr Ser Pro Pro Gly Leu His Leu Trp Lys Phe Ile Arg  
                             35                      40                      45  
 Asp Leu Val Ser Met Glu Glu Leu Thr Asp Ser Ala Arg Glu Met Gly  
                             50                      55                      60  
 Tyr Trp Met Met Val Phe Ser Leu Lys Ala Met Phe Pro Val Ser Ser  
                             65                      70                      75                      80  
 Gly Cys Phe Gln Glu Arg Gln Glu Thr Asn Lys Ser Leu Thr Leu Leu  
                             85                      90                      95  
 Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly Gln Thr Trp  
                             100                      105                      110  
 Ala Arg Val Arg Val Thr Lys Pro Pro Thr Thr Ala Thr Ala Ala Tyr  
                             115                      120                      125  
 Asn Arg His Ile Arg  
                             130

<210> 989  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 989  
 Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
   1                            5                            10                            15  
 Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser  
                             20                            25                            30  
 Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
                             35                            40

<210> 990  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 990  
 Met Ser Gln Leu Ser Arg Thr Ser Leu Ser Leu Leu Thr Leu Leu  
   1                            5                            10                            15  
 Val Leu Trp Gly Ser Ser Cys Cys Leu Pro Ile Trp Cys Leu Pro Asn  
                             20                            25                            30  
 Arg His Arg Leu Leu Lys Leu Ser Phe Leu Leu Phe Ser Pro Asp Ile  
                             35                            40                            45  
 Pro Tyr Leu Ser His Thr His Pro Asn Asn Ile Ser Cys Ser Val Leu

50                      55                      60  
 Ser Leu Arg Gln His Leu Asn Phe Thr Gln Pro Gly Ala Leu Phe Thr  
 65                      70                      75                      80  
 Cys Leu Val Gln Ile Gln Phe Gly Leu Ile Leu Gln Pro Cys Ile Ser  
                     85                      90                      95  
 Lys Trp Gly Leu Gly  
                     100

<210> 991  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 991  
 Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe  
 1                      5                      10                      15  
 His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys  
                     20                      25                      30  
 Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro  
                     35                      40                      45  
 Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr  
                     50                      55                      60  
 Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln  
 65                      70                      75                      80  
 Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val  
                     85                      90                      95  
 Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr  
                     100                      105                      110  
 Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp  
                     115                      120                      125  
 Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala  
                     130                      135                      140  
 Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe  
 145                      150                      155                      160  
 Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val  
                     165                      170                      175  
 His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu  
                     180                      185                      190  
 Gly Gly Cys Thr Asp Asp Thr Leu Leu  
                     195                      200

<210> 992

<211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 992  
 Met Phe Leu Lys Val Leu Val Phe Leu Ile Phe Phe Ser Pro Phe Ser  
     1                    5                    10                    15  
 Ser Ser Leu Phe Ser Gly Glu Ala Val Arg Gly Arg Gly Ala Gly Leu  
                     20                    25                    30  
 Gly Leu Gly Ile Gly Arg Gly Trp Thr Ser Cys Leu Ser Val Leu Asn  
                     35                    40                    45  
 Gly Cys Asp Gly Ala Arg Ser His  
                     50                    55

<210> 993  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 993  
 Met Gly Pro Cys Arg Ala Ser Arg Cys Leu Ser Leu Leu Val Leu Phe  
     1                    5                    10                    15  
 Pro Pro Gly Val Ala Gly Arg Pro Ala Pro Gly Arg Leu His Pro Val  
                     20                    25                    30  
 Pro Thr Gly Pro Leu Pro Arg Met Tyr Ser Ala Gly Ala Arg Gly Arg  
                     35                    40                    45  
 His Gly Ala His  
                     50

<210> 994  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 994  
 Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser  
     1                    5                    10                    15  
 Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser  
                     20                    25                    30  
 His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Arg Phe Tyr Val  
                     35                    40                    45  
 Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala Lys  
                     50                    55                    60  
 Met Ser Cys Gln Ser Trp Leu Ala Pro  
     65                    70



<210> 995  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 995  
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser  
     1                    5                    10                    15  
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu  
                     20                    25                    30  
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu  
             35                    40                    45  
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu  
     50                    55                    60  
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys  
     65                    70                    75                    80  
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly  
                     85                    90                    95  
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Arg Val Ser  
             100                    105                    110  
 Leu Ser Ala Pro Pro Pro Pro Tyr Ser Glu Val Ile Leu Lys Pro Ser  
     115                    120                    125  
 Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe Arg Pro  
     130                    135                    140  
 Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala Phe  
     145                    150                    155

<210> 996  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 996  
 Met Asp Gly Gly Pro Gly Ala Phe Ser Arg Ala Trp Val Leu Gln Ile  
     1                    5                    10                    15  
 Pro Trp Leu Leu Leu Ser Gly Gly Asn Phe Ala Leu Cys Glu Pro Arg  
             20                    25                    30  
 Pro Cys Pro Ser Ala Gly His Pro Trp Gln Glu Ala Gly Leu Pro Ser  
             35                    40                    45  
 Ser Pro  
     50

<210> 997  
 <211> 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 997

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp  
 1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg  
 35 40 45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
 50 55 60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln  
 65 70 75 80

Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu  
 85 90 95

Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu  
 100 105 110

Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu  
 115 120 125

Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln  
 130 135 140

Asp His Ile Tyr His Pro Gln  
 145 150

&lt;210&gt; 998

&lt;211&gt; 506

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (423)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (425)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 998

Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly  
 1 5 10 15

Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val  
 20 25 30

Glu Val Thr Glu Gln Glu Thr Lys Val Pro Lys Lys Thr Val Ile Ile  
 35 40 45

Glu Glu Thr Ile Thr Thr Val Val Lys Ser Pro Arg Gly Gln Arg Arg  
 50 55 60

Xaa Pro Ser Lys Ser Pro Ser Arg Ser Pro Ser Arg Cys Ser Ala Ser  
 65 70 75 80

Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu Tyr Leu Pro Gly  
 85 90 95

Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly Gln Lys Pro Xaa  
 100 105 110

Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His Ser Pro Ala Leu  
 115 120 125

Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu Val Glu Glu Thr  
 130 135 140

Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly Val Ser Pro Thr  
 145 150 155 160

Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe Thr Leu Pro Gly  
 165 170 175

Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser Asn Asn Lys Leu  
 180 185 190

Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Ala Met Val Gly Val Arg  
 195 200 205

Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser Val Asp Trp Ala  
 210 215 220

Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr Met Glu Glu Ala  
 225 230 235 240

Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val Thr Glu Glu Ser  
 245 250 255

Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys Ile Leu Thr His  
 260 265 270

Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp Tyr Val Pro Gly  
 275 280 285

Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro Gly Ala Pro Asp  
 290 295 300

Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu Ile Gly Glu Pro  
 305 310 315 320

Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met His Trp Val Pro  
 325 330 335  
 Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Val Gly Arg His His  
 340 345 350  
 Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro Ser Ser Cys Gly  
 355 360 365  
 Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly Arg Ser Leu Ser  
 370 375 380  
 Ala Pro Ala Ser Gly Val Leu Arg Thr Val Ala Arg Ala Ala Ser Pro  
 385 390 395 400  
 Gln Ser Phe Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly Arg Arg  
 405 410 415  
 Ser Pro Phe Thr Ser Val Xaa Gly Xaa Gly Pro Ser Tyr Leu Thr Gln  
 420 425 430  
 Leu Gln Pro Gly Gly Leu Gly Gly Ala Cys Asn Val Gly Met Thr Gly  
 435 440 445  
 Ser Lys Thr Ser Ala Leu Gly Cys Phe Leu Ser Ala Trp Gln Glu Pro  
 450 455 460  
 Gln Asp Cys Gly Arg Arg Met Trp Pro Trp Ala Phe Val Leu Phe Pro  
 465 470 475 480  
 His Gly Pro Gly Pro Ser Leu Leu Ala Pro Ala Thr Ala Ala Arg Pro  
 485 490 495  
 Asp Met Ala Leu Pro Leu Leu Gln Ser Trp  
 500 505

<210> 999  
 <211> 522  
 <212> PRT  
 <213> Homo sapiens

<400> 999  
 Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val  
 1 5 10 15  
 Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln  
 20 25 30  
 Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile  
 35 40 45  
 Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala  
 50 55 60  
 Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp  
 65 70 75 80  
 Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser  
 85 90 95

Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln  
 100 105 110  
 Thr Ser Met Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala  
 115 120 125  
 Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln  
 130 135 140  
 Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly  
 145 150 155 160  
 Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu  
 165 170 175  
 Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys  
 180 185 190  
 Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu  
 195 200 205  
 Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met  
 210 215 220  
 Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His  
 225 230 235 240  
 Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly  
 245 250 255  
 Asn Leu Ile Val Val Asn Ala Thr Leu Lys Ile Asn Asn Glu Ile Arg  
 260 265 270  
 Ser Val Lys Arg Leu Gln Leu Leu Pro Glu Ser Phe Ile Cys Lys Glu  
 275 280 285  
 Lys Leu Gly Glu Asn Val Ala Asn Ile Tyr Lys Asp Leu Gln Lys Leu  
 290 295 300  
 Ser Arg Leu Phe Lys Asp Gln Leu Val Tyr Pro Leu Leu Ala Phe Thr  
 305 310 315 320  
 Arg Gln Ala Leu Asn Leu Pro Asp Val Phe Gly Leu Val Val Leu Pro  
 325 330 335  
 Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp Val Arg Ser Val  
 340 345 350  
 Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr Ala Ser Asn Asp  
 355 360 365  
 Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe Arg Asp Asn Thr  
 370 375 380  
 Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr Arg Lys Arg His  
 385 390 395 400  
 Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val Met Leu Leu Pro  
 405 410 415

Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro Leu His Pro Arg  
420 425 430

Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile Gly Gly Glu Tyr  
435 440 445

Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro Ile Ser Ser Leu  
450 455 460

Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro Pro Leu Arg Pro  
465 470 475 480

Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn Pro Ile Leu Pro  
485 490 495

Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg Pro Ser Arg Gly  
500 505 510

Arg Pro Thr Asp Gly Arg Leu Ser Phe Met  
515 520

<210> 1000  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 1000  
Met Leu Val Ser Leu Ile Ile Cys Leu Leu Leu Asp Leu Leu Asn Gln  
1 5 10 15

Pro Ser Leu Leu Arg Asp Leu Ile Leu Lys Gln His Thr Gly Asn Pro  
20 25 30

His Leu Ser Phe Pro Leu Lys Tyr Ser His Trp Met Gly  
35 40 45

<210> 1001  
<211> 186  
<212> PRT  
<213> Homo sapiens

<400> 1001  
Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro  
1 5 10 15

Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val  
20 25 30

Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe  
35 40 45

Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala  
50 55 60

Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Met Arg Leu Cys Trp  
65 70 75 80

Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln  
                             85                            90                            95

Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Leu  
                             100                            105                            110

Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg  
                             115                            120                            125

His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr  
                             130                            135                            140

Val Thr Ala Tyr Thr Ala Gly Pro Phe Thr Ser Ala Phe Phe Asn Pro  
                             145                            150                            155                            160

Ala Leu Ala Ala Ser Val Thr Phe Ala Cys Ser Asp Thr Pro Tyr Trp  
                             165                            170                            175

Ser Thr Cys Arg Cys Thr Gly Trp Ala Leu  
                             180                            185

&lt;210&gt; 1002

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1002

Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr  
   1                            5                            10                            15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro  
                             20                            25                            30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg  
                             35                            40                            45

Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Pro Trp Gly His Gly  
                             50                            55                            60

Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu  
                             65                            70                            75                            80

Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser Thr  
                             85                            90                            95

Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu  
                             100                            105                            110

Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp Arg  
                             115                            120                            125

Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe  
                             130                            135                            140

Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn  
                             145                            150                            155                            160

Leu Pro Met Cys Arg Glu Asp Asp  
                             165

<210> 1003  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1003  
 Met Met Lys Tyr Phe Phe Asp Val Val Val Phe Leu Thr Phe Phe Leu  
 1 5 10 15  
 Val Phe Ser Leu Ser Ile Phe Leu Ser Asp Glu Glu Phe Pro Val Ser  
 20 25 30  
 Arg Thr Gln Asn Ile Gly Leu Cys His Phe Asn Pro Ser Phe Ser Glu  
 35 40 45

<210> 1004  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1004  
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr  
 1 5 10 15  
 Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val  
 20 25 30  
 Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys  
 35 40

<210> 1005  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 1005  
 Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser  
 1 5 10 15  
 Val Gly Cys Pro Cys Cys Leu Ser Cys Ala Ser Pro Ser Ser Ile Ser  
 20 25 30  
 Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp  
 35 40 45  
 Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu Leu Val Arg Tyr  
 50 55 60  
 Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly  
 65 70 75



<210> 1006  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 1006  
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala  
     1                    5                    10                    15  
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn  
                     20                    25                    30  
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser  
                     35                    40                    45  
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr  
                     50                    55                    60  
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn  
     65                    70                    75                    80  
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser  
                     85                    90                    95  
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe  
                     100                    105                    110  
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala  
                     115                    120                    125  
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe  
     130                    135                    140  
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp  
     145                    150                    155                    160  
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val  
                     165                    170                    175  
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu  
                     180                    185

<210> 1007  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1007  
 Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe  
     1                    5                    10                    15  
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser  
                     20                    25                    30  
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys  
                     35                    40                    45

Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala  
 50 55 60

Phe Pro Ile Ser Arg Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser  
 65 70 75 80

Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr  
 85 90 95

Ser Phe Ser Val Pro Cys Arg Val Lys  
 100 105

<210> 1008

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1008

Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys  
 1 5 10 15

Ala Val Leu Gly Lys Gly Leu His Ser Asp Pro Ser Arg Pro Phe Glu  
 20 25 30

His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu  
 35 40 45

Ser Lys Glu Val Leu Leu Thr Leu Pro Pro Cys Leu His Val Ser Val  
 50 55 60

Gly Arg Lys  
 65

<210> 1009

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1009

Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser  
 1 5 10 15

Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp  
 20 25 30

Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser  
 35 40 45

Lys Phe Ile Ser  
 50

<210> 1010

<211> 188

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1010

Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro  
 1 5 10 15

Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp  
 20 25 30

Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu  
 35 40 45

Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe  
 50 55 60

Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe  
 65 70 75 80

Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg  
 85 90 95

Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu  
 100 105 110

Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe  
 115 120 125

Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu  
 130 135 140

Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr  
 145 150 155 160

Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile  
 165 170 175

Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu  
 180 185

&lt;210&gt; 1011

&lt;211&gt; 742

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1011

Met Ala Val Arg Glu Leu Cys Phe Pro Arg Gln Arg Gln Val Leu Phe  
 1 5 10 15

Leu Phe Leu Phe Trp Gly Val Ser Leu Ala Gly Ser Gly Phe Gly Arg  
 20 25 30

Tyr Ser Val Thr Glu Glu Thr Glu Lys Gly Ser Phe Val Val Asn Leu  
 35 40 45

Ala Lys Asp Leu Gly Leu Ala Glu Gly Glu Leu Ala Ala Arg Gly Thr  
 50 55 60

Arg Val Val Ser Asp Asp Asn Lys Gln Tyr Leu Leu Leu Asp Ser His  
 65 70 75 80

Thr Gly Asn Leu Leu Thr Asn Glu Lys Leu Asp Arg Glu Lys Leu Cys  
                                     85                                    90                                    95  
 Gly Pro Lys Glu Pro Cys Met Leu Tyr Phe Gln Ile Leu Met Asp Asp  
                                     100                                    105                                    110  
 Pro Phe Gln Ile Tyr Arg Ala Glu Leu Arg Val Arg Asp Ile Asn Asp  
                                     115                                    120                                    125  
 His Ala Pro Val Phe Gln Asp Lys Glu Thr Val Leu Lys Ile Ser Glu  
                                     130                                    135                                    140  
 Asn Thr Ala Glu Gly Thr Ala Phe Arg Leu Glu Arg Ala Gln Asp Pro  
                                     145                                    150                                    155                                    160  
 Asp Gly Gly Leu Asn Gly Ile Gln Asn Tyr Thr Ile Ser Pro Asn Ser  
                                     165                                    170                                    175  
 Phe Phe His Ile Asn Ile Ser Gly Gly Asp Glu Gly Met Ile Tyr Pro  
                                     180                                    185                                    190  
 Glu Leu Val Leu Asp Lys Ala Leu Asp Arg Glu Glu Gln Gly Glu Leu  
                                     195                                    200                                    205  
 Ser Leu Thr Leu Thr Ala Leu Asp Gly Gly Ser Pro Ser Arg Ser Gly  
                                     210                                    215                                    220  
 Thr Ser Thr Val Arg Ile Val Val Leu Asp Val Asn Asp Asn Ala Pro  
                                     225                                    230                                    235                                    240  
 Gln Phe Ala Gln Ala Leu Tyr Glu Thr Gln Ala Pro Glu Asn Ser Pro  
                                     245                                    250                                    255  
 Ile Gly Phe Leu Ile Val Lys Val Trp Ala Glu Asp Val Asp Ser Gly  
                                     260                                    265                                    270  
 Val Asn Ala Glu Val Ser Tyr Ser Phe Phe Asp Ala Ser Glu Asn Ile  
                                     275                                    280                                    285  
 Arg Thr Thr Phe Gln Ile Asn Pro Phe Ser Gly Glu Ile Phe Leu Arg  
                                     290                                    295                                    300  
 Glu Leu Leu Asp Tyr Glu Leu Val Asn Ser Tyr Lys Ile Asn Ile Gln  
                                     305                                    310                                    315                                    320  
 Ala Met Asp Gly Gly Gly Leu Ser Ala Arg Cys Arg Val Leu Val Glu  
                                     325                                    330                                    335  
 Val Leu Asp Thr Asn Asp Asn Pro Pro Glu Leu Ile Val Ser Ser Phe  
                                     340                                    345                                    350  
 Ser Asn Ser Val Ala Glu Asn Ser Pro Glu Thr Pro Leu Ala Val Phe  
                                     355                                    360                                    365  
 Lys Ile Asn Asp Arg Asp Ser Gly Glu Asn Gly Lys Met Val Cys Tyr  
                                     370                                    375                                    380  
 Ile Gln Glu Asn Leu Pro Phe Leu Leu Lys Pro Ser Val Glu Asn Phe  
                                     385                                    390                                    395                                    400  
 Tyr Ile Leu Ile Thr Glu Gly Ala Leu Asp Arg Glu Ile Arg Ala Glu

405										410										415													
Tyr	Asn	Ile	Thr	Ile	Thr	Val	Thr	Asp	Leu	Gly	Thr	Pro	Arg	Leu	Lys																		
			420					425						430																			
Thr	Glu	His	Asn	Ile	Thr	Val	Leu	Val	Ser	Asp	Val	Asn	Asn	Asn	Ala																		
		435					440					445																					
Pro	Ala	Phe	Thr	Gln	Thr	Ser	Tyr	Thr	Leu	Phe	Val	Arg	Glu	Asn	Asn																		
	450					455					460																						
Ser	Pro	Ala	Leu	His	Ile	Gly	Ser	Val	Ser	Ala	Thr	Asp	Arg	Asp	Ser																		
465					470				475					480																			
Gly	Thr	Asn	Ala	Gln	Val	Thr	Tyr	Ser	Leu	Leu	Pro	Pro	Gln	Asp	Pro																		
			485					490						495																			
His	Leu	Pro	Leu	Ala	Ser	Leu	Val	Ser	Ile	Asn	Ala	Asp	Asn	Gly	His																		
			500					505					510																				
Leu	Phe	Ala	Leu	Arg	Ser	Leu	Asp	Tyr	Glu	Ala	Leu	Gln	Ala	Phe	Glu																		
	515						520					525																					
Phe	Arg	Val	Gly	Ala	Thr	Asp	Arg	Gly	Ser	Pro	Ala	Leu	Asn	Ser	Glu																		
	530					535					540																						
Ala	Leu	Gly	Ala	Arg	Ala	Gly	Ala	Gly	Arg	Gln	Arg	Gln	Leu	Ala	Leu																		
545					550				555					560																			
Arg	Ala	Val	Pro	Ala	Ala	Glu	Arg	Leu	Arg	Ala	Leu	His	Arg	Ala	Gly																		
				565				570					575																				
Ala	Pro	Gly	Gly	Arg	Ala	Gly	Leu	Pro	Gly	Asp	Gln	Gly	Gly	Gly	Gly																		
		580					585					590																					
Gly	Arg	Arg	Leu	Gly	Pro	Glu	Arg	Leu	Ala	Val	Val	Pro	Ala	Ala	Gln																		
	595						600					605																					
Gly	His	Gly	Ala	Arg	Ala	Val	Arg	Cys	Val	Gly	Ala	Gln	Trp	Gly	Gly																		
610						615					620																						
Ala	His	Arg	Gln	Ala	Ala	Glu	Arg	Ala	Arg	Arg	Ser	Gln	Ala	Gln	Ala																		
625					630				635					640																			
Gly	Gly	Ala	Cys	Gln	Gly	Gln	Trp	Arg	Ala	Ser	Ser	Leu	Gly	His	Arg																		
				645				650					655																				
His	Ala	Ala	Arg	Ala	Pro	Gly	Gly	Arg	Leu	Leu	Pro	Ala	Leu	Pro	Ala																		
			660					665					670																				
Ser	Pro	Gly	Gly	Gly	Pro	Gly	Pro	Gly	Pro	Gly	Arg	Leu	Ala	His	Arg																		
		675					680					685																					
Leu	Pro	Gly	Gly	Gly	Val	Gly	Leu	Gly	Val	Phe	Ala	Leu	Pro	Pro	Leu																		
	690					695					700																						
Gly	Ala	Pro	Val	Arg	Gly	Gly	Ala	Ala	Val	Gln	Glu	Glu	Gln	Gly	Gly																		
705					710				715					720																			
Leu	Gly	Gly	Ser	Leu	Leu	Gly	Ala	Arg	Gly	Ser	Phe	Ser	Arg	Ala	Ser																		
				725				730					735																				

Gly Gly Arg Glu Gly Arg  
740

<210> 1012

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any amino acid

<400> 1012

Met Cys Leu Ser Leu Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr  
1 5 10 15

Trp Ala Ser Glu Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu  
20 25 30

Ile Thr Thr Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr  
35 40 45

Val Val Gly Leu Val Ser Ser Leu Leu Gly Gly Thr Phe Val Gly Ile  
50 55 60

Ala Tyr Phe Leu Thr Gln Leu Ile Phe Val Asn Asp Leu Asp Ile Ser  
65 70 75 80

Ala Pro Gln Trp Pro Ile Ile Ala Phe Gly Gly Leu Ala Gly Leu Leu  
85 90 95

Gly Ser Ile Val Asp Ser Tyr Leu Gly Ala Thr Met Gln Tyr Thr Gly  
100 105 110

Leu Asp Glu Ser Thr Gly Met Val Val Asn Ser Pro Thr Asn Xaa Ala  
115 120 125

Arg His Ile Ala Gly Lys Pro Ile Leu Asp Asn Asn Ala Val Asn Leu  
130 135 140

Phe Ser Ser Val Leu Ile Ala Leu Leu Leu Pro Thr Ala Ala Trp Gly  
145 150 155 160

Phe Trp Pro Arg Gly  
165

<210> 1013

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1013

Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr  
1 5 10 15

Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn  
                   20                  25                  30

Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp  
                   35                  40                  45

Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val  
                   50                  55                  60

<210> 1014

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1014

Met Ile His Arg Ala Arg Ser Leu Ala Ala Leu Ser Ser Leu Met Leu  
                   1                  5                  10                  15

Tyr Thr Lys Leu Val Gln Pro Val Ala Cys Ile Ser His Val Ala Gln  
                   20                  25                  30

Asp Gly Phe Glu Tyr Gly Pro Thr Gln Ile His Lys Leu Ser  
                   35                  40                  45

<210> 1015

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1015

Met Ser Gly Ala Trp Gly Ser Gly Phe Ala Gly Ala Leu Trp Ser Met  
                   1                  5                  10                  15

Gly Leu Cys Ala Ser Ser Val Trp Gly Asn Ser Trp Asp Ile Asp Phe  
                   20                  25                  30

Cys Pro Arg Asp Ser His Gly Glu Trp  
                   35                  40

<210> 1016

<211> 310

<212> PRT

<213> Homo sapiens

<400> 1016

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
                   1                  5                  10                  15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
                   20                  25                  30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
                   35                  40                  45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg

50	55	60
Ile Glu Trp Lys Lys	Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe	
65	70	75 80
Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly		
	85	90 95
Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu		
	100	105 110
Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu		
	115	120 125
Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys		
	130	135 140
Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys		
	145	150 155 160
Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn		
	165	170 175
Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn		
	180	185 190
Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala		
	195	200 205
Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp		
	210	215 220
Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu		
	225	230 235 240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu		
	245	250 255
Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe		
	260	265 270
Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro		
	275	280 285
Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His		
	290	295 300
Lys Ser Ser Phe Val Ile		
305	310	

&lt;210&gt; 1017

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1017

Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
1 5 10 15



Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser  
                   20                  25                  30  
 Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Cys  
           35                  40                  45  
 Leu Leu Ala  
           50

&lt;210&gt; 1018

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1018

Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val  
   1                  5                  10                  15  
 Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Ala Pro Arg  
                   20                  25                  30  
 Thr Ser Thr Cys Thr Arg Pro Ser Leu Gly Arg Thr Arg Gly Arg Arg  
           35                  40                  45  
 Cys Pro Arg Pro Gly Arg Thr Gly Gln Gly Ala His Gly Arg Leu Arg  
           50                  55                  60  
 Cys Arg Arg Val Ser Gly Gln Phe Leu Met Leu Ala  
   65                  70                  75

&lt;210&gt; 1019

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1019

Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly  
   1                  5                  10                  15  
 Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg  
                   20                  25                  30  
 Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys  
           35                  40                  45  
 Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln  
           50                  55                  60  
 Ser Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His  
   65                  70                  75                  80  
 Ser Gly Phe Gly

&lt;210&gt; 1020

<211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1020  
 Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val  
 1 5 10 15  
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val  
 20 25 30  
 Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys  
 35 40 45  
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala  
 50 55 60  
 Lys Cys Thr Thr Arg Cys Trp Leu  
 65 70

<210> 1021  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 1021  
 Met Cys Tyr Leu Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile  
 1 5 10 15  
 His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys  
 20 25 30  
 Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly  
 35 40 45  
 Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn  
 50 55 60  
 Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile  
 65 70 75 80  
 Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr  
 85 90 95  
 Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Ser  
 100 105 110  
 Val Gly Phe Gly Lys Cys  
 115

<210> 1022  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1022

Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu  
 1 5 10 15

His Leu Thr Ala Ala Phe Leu Gln Arg Ala His Xaa Ile Leu Thr Thr  
 20 25 30

Arg Met Ser Leu Gly Phe Gln Ser Pro His Leu Thr Met  
 35 40 45

&lt;210&gt; 1023

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

Pro Gly Pro His Cys Phe Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly  
 1 5 10 15

Ser Arg

&lt;210&gt; 1024

&lt;211&gt; 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1024

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser  
 1 5 10 15

Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly  
 20 25 30

Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln  
 35 40 45

Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys  
 50 55 60

Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys  
 65 70 75 80

Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro  
 85 90 95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu  
 100 105 110

Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly  
 115 120 125

Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala  
 130 135 140

Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala  
 145 150 155 160

Met Gln Thr Gly Ser Pro Ala Ser Thr  
 165

<210> 1025

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (170)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (171)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (177)

<223> Xaa equals any amino acid

<400> 1025

Met Ala Ala Pro Arg Gly Arg Ala Ala Pro Trp Thr Thr Ala Leu Leu  
 1 5 10 15

Leu Leu Leu Ala Ser Gln Val Leu Ser Pro Gly Ser Cys Ala Asp Glu  
 20 25 30

Glu Glu Val Pro Glu Glu Trp Val Leu Leu His Val Val Gln Gly Gln  
 35 40 45

Ile Gly Ala Gly Asn Tyr Ser Tyr Leu Arg Leu Asn His Glu Gly Lys  
 50 55 60

Ile Val Leu Arg Met Arg Ser Leu Lys Gly Asp Ala Asp Leu Tyr Val  
 65 70 75 80

Ser Ala Ser Ser Leu His Pro Ser Phe Asp Asp Tyr Glu Leu Gln Ser  
 85 90 95

Ala Thr Cys Gly Pro Asp Ala Val Ser Ile Pro Ala His Phe Arg Arg  
 100 105 110

Pro Val Gly Ile Gly Val Tyr Gly His Pro Ser His Leu Glu Ser Glu  
 115 120 125

Phe Glu Met Lys Val Tyr Tyr Asp Gly Thr Val Glu Gln His Pro Phe  
 130 135 140

Gly Glu Ala Ala Tyr Pro Ala Asp Gly Gln Met Pro Xaa Arg Ser Thr  
 145 150 155 160

Leu Val Pro Arg Lys Thr Pro Arg Lys Xaa Xaa Asn Leu Phe Ser Gly  
 165 170 175

Xaa Tyr

<210> 1026

<211> 8

<212> PRT

<213> Homo sapiens

<400> 1026

Thr Ala Ile Phe Phe Leu Leu Val  
 1 5

<210> 1027

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1027

Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly  
 1 5 10 15

Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln  
 20 25 30

Tyr Val Ala Gly Cys Ser Ser Ser Trp Glu Gly Lys Gln Trp Asn  
 35 40 45

<210> 1028

<211> 203

<212> PRT

<213> Homo sapiens

<400> 1028

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys  
 1 5 10 15

Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys  
 20 25 30

Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val  
 35 40 45

Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala  
 50 55 60

Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile  
 65 70 75 80

Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser  
                             85                            90                            95  
 Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala  
                             100                            105                            110  
 Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr  
                             115                            120                            125  
 Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu  
                             130                            135                            140  
 Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly  
                             145                            150                            155                            160  
 Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala  
                             165                            170                            175  
 Pro Gly Leu Ser Val Arg Leu Leu Arg Asp Pro Arg Cys Pro Asp Pro  
                             180                            185                            190  
 Gly Cys Thr Ala Ala Pro Cys His Ala Ala His  
                             195                            200

<210> 1029  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1029  
 Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu  
   1                            5                            10                            15  
 Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu  
                             20                            25                            30  
 Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu  
                             35                            40                            45  
 Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys  
                             50                            55                            60  
 Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser  
                             65                            70                            75                            80  
 Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys  
                             85                            90                            95  
 Ala Glu

<210> 1030  
 <211> 392  
 <212> PRT  
 <213> Homo sapiens  
 <220>

&lt;221&gt; SITE

&lt;222&gt; (251)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1030

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly  
 1 5 10 15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser  
 20 25 30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr  
 35 40 45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile  
 50 55 60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu  
 65 70 75 80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly  
 85 90 95

Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser  
 100 105 110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro  
 115 120 125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro  
 130 135 140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu  
 145 150 155 160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly  
 165 170 175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
 180 185 190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His  
 195 200 205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro  
 210 215 220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His  
 225 230 235 240

Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala  
 245 250 255

Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly  
 260 265 270

Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly  
 275 280 285

Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
 290 295 300

Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile  
 305 310 315 320

Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val  
 325 330 335

Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr  
 340 345 350

Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala  
 355 360 365

Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val  
 370 375 380

Leu Glu Gly Phe Ile Lys Gly Arg  
 385 390

<210> 1031  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<400> 1031  
 Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu  
 1 5 10 15

Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro  
 20 25 30

Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly  
 35 40 45

Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn  
 50 55 60

Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr  
 65 70 75 80

Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser  
 85 90 95

Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu  
 100 105 110

Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe  
 115 120 125

Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr  
 130 135 140

Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys  
 145 150 155 160

Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly Gly Ser Gly  
 165 170 175

His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys



180 185 190  
 Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys  
 195 200 205  
 Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu Glu Ser  
 210 215 220  
 Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His Leu Lys Cys  
 225 230 235 240  
 Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp  
 245 250 255  
 Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg Asp Cys Ala  
 260 265 270  
 Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg Cys Lys Lys  
 275 280 285  
 Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu Asp Val Asp  
 290 295 300  
 Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln Cys Glu Asn  
 305 310 315 320  
 Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met  
 325 330 335  
 Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Gly Ala Phe Pro Ile Leu  
 340 345 350  
 Thr Asp Leu Thr Pro Glu Thr Thr Arg Arg Trp Lys Leu Gly Ser His  
 355 360 365  
 Pro His Ser Thr Tyr Val Lys Met Lys Met Gln Arg Asp Glu Ala Thr  
 370 375 380  
 Phe Pro Gly Leu Tyr Gly Lys Gln Val Ala Lys Leu Gly Ser Gln Ser  
 385 390 395 400  
 Arg Gln Ser Asp Arg Gly Thr Arg Leu Ile His Val Ile Asn Ala Leu  
 405 410 415  
 Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Lys Gly  
 420 425 430  
 Gly Arg

&lt;210&gt; 1032

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1032

Met His Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys Pro Ser  
 1 5 10 15

Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu Asn Ile  
                   20                  25                  30  
 Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg Cys Tyr  
                   35                  40                  45  
 Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe Gln Tyr  
                   50                  55                  60  
 Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly Leu Thr  
                   65                  70                  75                  80  
 Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe Asp Ser  
                   85                  90                  95  
 Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg Ala Ala  
                   100                  105                  110  
 Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu  
                   115                  120

<210> 1033  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1033  
 Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala  
                   1                  5                  10                  15  
 Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg  
                   20                  25                  30  
 Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly  
                   35                  40                  45  
 Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr  
                   50                  55                  60  
 Asp Val Ser Ser Gly Arg Ser Thr Thr Ser Leu Gly Pro Thr Ile Ala  
                   65                  70                  75                  80  
 Ala Ser Gln Ala Glu Thr His Pro Glu Leu Ser  
                   85                  90

<210> 1034  
 <211> 189  
 <212> PRT  
 <213> Homo sapiens

<400> 1034  
 Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val  
                   1                  5                  10                  15  
 His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu  
                   20                  25                  30

Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu  
           35                    40                    45  
 Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu  
           50                    55                    60  
 Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser  
           65                    70                    75                    80  
 Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg  
                     85                    90                    95  
 Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr  
                     100                    105                    110  
 Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln  
           115                    120                    125  
 Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu  
           130                    135                    140  
 Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu  
           145                    150                    155                    160  
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr  
                     165                    170                    175  
 Lys Thr Gly Ser His Pro Lys Leu Asp Arg Glu Asp Leu  
           180                    185

<210> 1035  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 1035  
 Leu Gly Ser Leu Ser Thr Ala Pro Ser Ser Ala Leu Pro Thr Leu Gly  
   1                    5                    10                    15  
 Ala Arg Arg Thr Arg Ser Lys  
           20

<210> 1036  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (185)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (188)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (193)  
 <223> Xaa equals any amino acid

<400> 1036  
 Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr  
           1                  5                  10                  15  
 Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp  
                   20                  25                  30  
 Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro  
           35                  40                  45  
 Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly  
           50                  55                  60  
 Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile  
           65                  70                  75                  80  
 Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe  
                   85                  90                  95  
 Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro  
           100                  105                  110  
 Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala  
           115                  120                  125  
 Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys  
           130                  135                  140  
 Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr  
           145                  150                  155                  160

Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His  
                             165                            170                            175

Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe  
                             180                            185                            190

Xaa Phe Asn Leu  
                             195

<210> 1037  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1037  
 Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys  
     1                            5                            10                            15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val  
                             20                            25                            30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser  
                             35                            40                            45

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe  
                             50                            55                            60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser  
     65                            70                            75                            80

<210> 1038  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1038  
 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His  
     1                            5                            10                            15

His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Gly Leu  
                             20                            25                            30

Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu  
                             35                            40                            45

Arg Thr Leu Thr Ser Pro Arg Thr Gly Ser Leu Phe  
                             50                            55                            60

<210> 1039  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any amino acid

<400> 1039  
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly  
 1 5 10 15  
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile  
 20 25 30  
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp  
 35 40 45  
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa  
 50 55 60  
 Xaa Thr Pro Leu Arg Glu Arg Arg Arg Arg Ala Lys Arg Lys Arg Leu  
 65 70 75 80  
 Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp  
 85 90 95  
 Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro  
 100 105 110  
 Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro  
 115 120 125  
 Thr Ser  
 130

<210> 1040  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 1040  
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
 1 5 10 15  
 Cys Cys Cys Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
 20 25 30  
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
 35 40 45  
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
 50 55 60  
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys  
 65 70 75 80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys  
                     85                    90                    95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His  
                     100                    105                    110

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro  
                     115                    120                    125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly  
                     130                    135                    140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu  
                     145                    150                    155                    160

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu  
                     165                    170

&lt;210&gt; 1041

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1041

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
   1                    5                    10                    15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
                     20                    25                    30

Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
                     35                    40                    45

Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
                     50                    55                    60

Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys  
   65                    70                    75                    80

Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys  
                     85                    90                    95

Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His  
                     100                    105                    110

His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro  
                     115                    120                    125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly  
 130 135 140  
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu  
 145 150 155 160  
 Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu  
 165 170 175  
 Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His  
 180 185 190  
 Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser  
 195 200 205  
 Gly Arg  
 210

<210> 1042  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any amino acid

<400> 1042  
 Met Arg Arg Leu Leu Leu Ala Leu Pro Phe Ala Leu Leu Pro Leu Ala  
 1 5 10 15  
 Val Ala His Ala His Glu Asp His Asp His Glu His Gly Ser Leu Gly  
 20 25 30  
 Ala His Glu His Gly Val Gly Arg Leu Asn Ala Val Leu Asp Gly Gln  
 35 40 45  
 Ala Leu Glu Leu Glu Leu Asp Ser Pro Ala Met Asn Leu Val Gly Phe  
 50 55 60  
 Glu His Val Ala Thr Ser Ala Ala Asp Lys Ala Lys Val Ala Ala Val  
 65 70 75 80  
 Arg Lys Gln Leu Glu Asn Pro Ser Gly Pro Val Gln Pro Ala Gln Ser  
 85 90 95  
 Arg Ser Cys Val Val Ser Asn Gln Gly Ile Asn Xaa Arg Cys Ser  
 100 105 110

<210> 1043  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1043  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser



1                      5                      10                      15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
                     20                      25                      30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
                     35                      40                      45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
                     50                      55                      60  
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
                     65                      70                      75                      80  
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His  
                     85                      90                      95  
 Pro Gly Asn

<210> 1044  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 1044  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
                     1                      5                      10                      15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
                     20                      25                      30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
                     35                      40                      45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
                     50                      55                      60  
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
                     65                      70                      75                      80  
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
                     85                      90                      95  
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
                     100                      105                      110  
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
                     115                      120                      125  
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
                     130                      135                      140  
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
                     145                      150                      155                      160  
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
                     165                      170                      175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
                   180                  185                  190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
                   195                  200                  205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
                   210                  215                  220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
                   225                  230                  235                  240

Ile Phe Pro Ser Ala  
                                   245

<210> 1045  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any amino acid

<400> 1045  
 Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val  
   1                  5                  10                  15

Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu  
                   20                  25                  30

Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His  
                   35                  40                  45

His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly  
                   50                  55                  60

Gly Asp Glu Pro Leu Xaa Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu  
   65                  70                  75                  80

Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu  
                   85                  90                  95

Ala Ile Tyr Arg Leu Arg Ala Val Arg  
                   100                  105

<210> 1046  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1046

Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr  
 20 25 30

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
 35 40 45

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
 50 55 60

Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp  
 65 70 75 80

Arg Ala Val Val Val Gln Met Ala Gln  
 85

&lt;210&gt; 1047

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1047

Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val  
 1 5 10 15

Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu  
 20 25

&lt;210&gt; 1048

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1048

Leu Ala Ala Thr Arg Lys Phe Phe Leu Ser Ser His Ser Ser Ser Cys  
 1 5 10 15

Lys Lys Gly Ala Met Ser Gln Lys Glu Ala Pro Phe His Arg Gln Arg  
 20 25 30

Leu His Arg Glu Arg Gly Asn Arg Arg Leu Gly Asn Gly Gly Glu Trp  
 35 40 45

Gly Arg Asn Trp Val Gln  
 50

&lt;210&gt; 1049

<211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 1049  
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val  
 1 5 10 15  
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp  
 20 25 30  
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly  
 35 40 45  
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys  
 50 55 60  
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly  
 65 70 75 80  
 Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu  
 85 90 95  
 Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser  
 100 105 110  
 Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser  
 115 120 125

<210> 1050  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 1050  
 Leu Gly Lys Pro Trp Arg Tyr Pro Thr  
 1 5

<210> 1051  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any amino acid

<400> 1051  
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile  
 1 5 10 15  
 Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser  
 20 25 30  
 Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr  
 35 40 45

Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn  
 50 55 60

Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His  
 65 70 75 80

Ile Asp Pro Xaa Pro Thr His Glu Trp Ala Val  
 85 90

<210> 1052

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1052

Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu  
 1 5 10 15

Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr  
 20 25 30

Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met  
 35 40 45

Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile  
 50 55 60

Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln  
 65 70 75 80

Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala  
 85 90 95

Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly  
 100 105 110

Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu  
 115 120 125

Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile  
 130 135 140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro  
 145 150 155

<210> 1053

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any amino acid

<400> 1053

Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln  
 1 5 10 15  
 Pro Pro Pro Tyr His Glu Leu Pro His Xaa His Gly Gln Ser Gln Arg  
 20 25 30  
 Val Leu Cys Gly Cys Tyr Val Ala His Cys Gly Ala Arg Leu Gly Arg  
 35 40 45  
 Ala Leu Leu Val Cys Asp Trp Val Ser Trp Pro Ser Cys Ala Cys Ser  
 50 55 60  
 Tyr Ser Ala Trp Ala Gln Pro Thr Ser Cys Cys His Thr Gly Asp Cys  
 65 70 75 80  
 Gly His Cys Asp Ser His Gln Gln Cys Leu Val Pro Pro Pro Ser Leu  
 85 90 95  
 Arg Gly Arg Gln Gly Thr Phe Asp Tyr Phe  
 100 105

&lt;210&gt; 1054

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (237)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1054

Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu  
 1 5 10 15  
 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His  
 20 25 30  
 His Tyr Gly Pro Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro  
 35 40 45  
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
 50 55 60  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
 65 70 75 80  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
 85 90 95  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
 100 105 110  
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu

115	120	125
Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu		
130	135	140
Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu		
145	150	155
Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln		
165	170	175
Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu		
180	185	190
His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala		
195	200	205
Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val		
210	215	220
Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr		
225	230	235
Pro Pro Pro Phe		

&lt;210&gt; 1055

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (237)

<223> Xaa equals any amino acid

<400> 1055

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Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
 1           5           10           15

Leu Val Ala Ile Val Leu Ala His Xaa Leu Ala Phe Phe Trp Phe His
          20           25           30

His Tyr Gly Pro Pro Pro Pro Xaa Xaa Ala Xaa Phe Val Glu Gln Pro
          35           40           45

Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly
          50           55           60

Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala
65           70           75           80

Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser
          85           90           95

Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val
          100          105          110

Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu
          115          120          125

Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu
          130          135          140

Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu
          145          150          155          160

Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
          165          170          175

Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu
          180          185          190

His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala
          195          200          205

Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val
          210          215          220

Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr
          225          230          235          240

Pro Pro Pro Phe

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<210> 1056

<211> 413

<212> PRT

<213> Homo sapiens

<400> 1056

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Met Arg Arg Gly Cys Ala Val Leu Gly Ala Leu Gly Leu Leu Ala Gly
 1           5           10           15

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Ala Gly Val Gly Ser Trp Leu Leu Val Leu Tyr Leu Cys Pro Ala Ala  
                   20                                  25                                  30  
 Ser Gln Pro Ile Ser Gly Thr Leu Gln Asp Glu Glu Ile Thr Leu Ser  
                   35                                  40                                  45  
 Cys Ser Glu Ala Ser Ala Glu Glu Ala Leu Leu Pro Ala Leu Pro Lys  
                   50                                  55                                  60  
 Thr Val Ser Phe Arg Ile Asn Ser Glu Asp Phe Leu Leu Glu Ala Gln  
                   65                                  70                                  75                                  80  
 Val Arg Asp Gln Pro Arg Trp Leu Leu Val Cys His Glu Gly Trp Ser  
                   85                                  90                                  95  
 Pro Ala Leu Gly Leu Gln Ile Cys Trp Ser Leu Gly His Leu Arg Leu  
                   100                                  105                                  110  
 Thr His His Lys Gly Val Asn Leu Thr Asp Ile Lys Leu Asn Ser Ser  
                   115                                  120                                  125  
 Gln Glu Phe Ala Gln Leu Ser Pro Arg Leu Gly Gly Phe Leu Glu Glu  
                   130                                  135                                  140  
 Ala Trp Gln Pro Arg Asn Asn Cys Thr Ser Gly Gln Val Val Ser Leu  
                   145                                  150                                  155                                  160  
 Arg Cys Ser Glu Cys Gly Ala Arg Pro Leu Ala Ser Arg Ile Val Gly  
                   165                                  170                                  175  
 Gly Gln Ser Val Ala Pro Gly Arg Trp Pro Trp Gln Ala Ser Val Ala  
                   180                                  185                                  190  
 Leu Gly Phe Arg His Thr Cys Gly Gly Ser Val Leu Ala Pro Arg Trp  
                   195                                  200                                  205  
 Val Val Thr Ala Ala His Cys Met His Ser Phe Arg Leu Ala Arg Leu  
                   210                                  215                                  220  
 Ser Ser Trp Arg Val His Ala Gly Leu Val Ser His Ser Ala Val Arg  
                   225                                  230                                  235                                  240  
 Pro His Gln Gly Ala Leu Val Glu Arg Ile Ile Pro His Pro Leu Tyr  
                   245                                  250                                  255  
 Ser Ala Gln Asn His Asp Tyr Asp Val Ala Leu Leu Arg Leu Gln Thr  
                   260                                  265                                  270  
 Ala Leu Asn Phe Ser Asp Thr Val Gly Ala Val Cys Leu Pro Ala Lys  
                   275                                  280                                  285  
 Glu Gln His Phe Pro Lys Gly Ser Arg Cys Trp Val Ser Gly Trp Gly  
                   290                                  295                                  300  
 His Thr His Pro Ser His Thr Tyr Ser Ser Asp Met Leu Gln Asp Thr  
                   305                                  310                                  315                                  320  
 Val Val Pro Leu Phe Ser Thr Gln Leu Cys Asn Ser Ser Cys Val Tyr  
                   325                                  330                                  335

Ser Gly Ala Leu Thr Pro Arg Met Leu Cys Ala Gly Tyr Leu Asp Gly  
 340 345 350

Arg Ala Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Pro  
 355 360 365

Asp Gly Asp Thr Trp Arg Leu Val Gly Val Val Ser Trp Gly Arg Gly  
 370 375 380

Cys Ala Glu Pro Asn His Pro Gly Val Tyr Ala Lys Val Ala Glu Phe  
 385 390 395 400

Leu Asp Trp Ile His Asp Thr Ala Gln Asp Ser Leu Leu  
 405 410

&lt;210&gt; 1057

&lt;211&gt; 941

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (807)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (809)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (815)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (819)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1057

Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu  
 1 5 10 15

Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys  
 20 25 30

Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro  
 35 40 45

Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp  
 50 55 60

Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr  
 65 70 75 80

Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His  
 85 90 95

Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly  
 100 105 110  
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln  
 115 120 125  
 Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro  
 130 135 140  
 Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His  
 145 150 155 160  
 Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile  
 165 170 175  
 Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro  
 180 185 190  
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg  
 195 200 205  
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser  
 210 215 220  
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val  
 225 230 235 240  
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser  
 245 250 255  
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val  
 260 265 270  
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr  
 275 280 285  
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro  
 290 295 300  
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu  
 305 310 315 320  
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala  
 325 330 335  
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala  
 340 345 350  
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp  
 355 360 365  
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe  
 370 375 380  
 Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe  
 385 390 395 400  
 Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser  
 405 410 415  
 His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met

420					425					430					
Phe	Asp	Asp	Val	Ser	Tyr	Asp	Lys	Gly	Ala	Cys	Ile	Leu	Asn	Met	Leu
	435						440					445			
Arg	Glu	Tyr	Leu	Ser	Ala	Asp	Ala	Phe	Lys	Ser	Gly	Ile	Val	Gln	Tyr
	450					455					460				
Leu	Gln	Lys	His	Ser	Tyr	Lys	Asn	Thr	Lys	Asn	Glu	Asp	Leu	Trp	Asp
465					470					475					480
Ser	Met	Ala	Ser	Ile	Cys	Pro	Thr	Asp	Gly	Val	Lys	Gly	Met	Asp	Gly
				485					490					495	
Phe	Cys	Ser	Arg	Ser	Gln	His	Ser	Ser	Ser	Ser	Ser	His	Trp	His	Gln
			500					505					510		
Glu	Gly	Val	Asp	Val	Lys	Thr	Met	Met	Asn	Thr	Trp	Thr	Leu	Gln	Arg
		515					520					525			
Gly	Phe	Pro	Leu	Ile	Thr	Ile	Thr	Val	Arg	Gly	Arg	Asn	Val	His	Met
	530					535					540				
Lys	Gln	Glu	His	Tyr	Met	Lys	Gly	Ser	Asp	Gly	Ala	Pro	Asp	Thr	Gly
545					550					555					560
Tyr	Leu	Trp	His	Val	Pro	Leu	Thr	Phe	Ile	Thr	Ser	Lys	Ser	Asp	Met
				565					570					575	
Val	His	Arg	Phe	Leu	Leu	Lys	Thr	Lys	Thr	Asp	Val	Leu	Ile	Leu	Pro
			580					585					590		
Glu	Glu	Val	Glu	Trp	Ile	Lys	Phe	Asn	Val	Gly	Met	Asn	Gly	Tyr	Tyr
		595					600					605			
Ile	Val	His	Tyr	Glu	Asp	Asp	Gly	Trp	Asp	Ser	Leu	Thr	Gly	Leu	Leu
	610					615					620				
Lys	Gly	Thr	His	Thr	Ala	Val	Ser	Ser	Asn	Asp	Arg	Ala	Ser	Leu	Ile
625					630					635					640
Asn	Asn	Ala	Phe	Gln	Leu	Val	Ser	Ile	Gly	Lys	Leu	Ser	Ile	Glu	Lys
				645					650					655	
Ala	Leu	Asp	Leu	Ser	Leu	Tyr	Leu	Lys	His	Glu	Thr	Glu	Ile	Met	Pro
		660						665					670		
Val	Phe	Gln	Gly	Leu	Asn	Glu	Leu	Ile	Pro	Met	Tyr	Lys	Leu	Met	Glu
		675					680					685			
Lys	Arg	Asp	Met	Asn	Glu	Val	Glu	Thr	Gln	Phe	Lys	Ala	Phe	Leu	Ile
	690					695					700				
Arg	Leu	Leu	Arg	Asp	Leu	Ile	Asp	Lys	Gln	Thr	Trp	Thr	Asp	Glu	Gly
705					710					715					720
Ser	Val	Ser	Glu	Arg	Met	Leu	Arg	Ser	Glu	Leu	Leu	Leu	Leu	Ala	Cys
				725					730					735	
Val	His	Asn	Tyr	Gln	Pro	Cys	Val	Gln	Arg	Ala	Glu	Gly	Tyr	Phe	Arg
			740					745					750		

Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr  
 755 760 765  
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe  
 770 775 780  
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln  
 785 790 795 800  
 Ile Glu Phe Ala Leu Cys Xaa Pro Xaa Asn Lys Glu Lys Leu Xaa Trp  
 805 810 815  
 Leu Leu Xaa Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe  
 820 825 830  
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu  
 835 840 845  
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe  
 850 855 860  
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn  
 865 870 875 880  
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser  
 885 890 895  
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile  
 900 905 910  
 Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys  
 915 920 925  
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
 930 935 940

&lt;210&gt; 1058

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1058

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu  
 1 5 10 15  
 Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg  
 20 25 30  
 Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile  
 35 40 45  
 Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe  
 50 55 60  
 Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys  
 65 70 75 80  
 Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro

85 90 95

His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln  
100 105 110

Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly  
115 120 125

Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp  
130 135 140

Asn Glu Lys Thr Leu Leu Ser Ser Asp Asp Glu Phe  
145 150 155

&lt;210&gt; 1059

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1059

Phe Leu Ser Ser Trp Gln Arg Pro Ala Cys Gly Cys Gln Arg Pro Ala  
1 5 10 15

Leu Pro Leu His Leu Gly Gly Ala Glu Gln Leu Gly Pro Ser Cys Pro  
20 25 30

Gly Gly Trp Val Gln Thr Gln Ala Glu Asp Gln Pro Trp Pro Cys Pro  
35 40 45

Ala Ile Cys Phe His Gln Ala Val Ser Pro Pro Trp Leu Pro Phe Ser  
50 55 60

Leu Gln Ala Lys Val Leu Leu Ile Pro Thr Pro Leu Val Phe Ala Cys  
65 70 75 80

Pro Ala Leu Leu Phe Ala Trp Arg Val Gly Gly Ala Gln Trp Gln Gly  
85 90 95

Ile Ser Gly Pro Trp Gly Arg Gly Asp Gly Asn Met Cys Pro Thr Ala  
100 105 110

Pro Ser Pro Pro Pro  
115

&lt;210&gt; 1060

&lt;211&gt; 264

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1060

Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu  
1 5 10 15

Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro  
20 25 30

Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp

35                      40                      45  
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr  
     50                      55                      60  
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp  
     65                      70                      75                      80  
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg  
                             85                      90                      95  
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn  
                             100                      105                      110  
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Ser  
     115                      120                      125  
 Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp  
     130                      135                      140  
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys  
     145                      150                      155                      160  
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val  
                             165                      170                      175  
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr  
                             180                      185                      190  
 Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu  
     195                      200                      205  
 Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg  
     210                      215                      220  
 Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp  
     225                      230                      235                      240  
 Val Leu Thr Gly Lys Gly Trp Pro Arg Thr Gln Ala Ser Gly Leu Ala  
                             245                      250                      255  
 Trp Thr Pro Thr Leu Ser Thr Trp  
                             260

&lt;210&gt; 1061

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1061

Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala  
     1                      5                      10                      15

Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln  
     20                      25                      30

Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu  
     35                      40                      45

Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn  
 50 55 60  
 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala  
 65 70 75 80  
 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe  
 85 90 95  
 Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val  
 100 105 110  
 Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp  
 115 120 125  
 Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys  
 130 135 140  
 Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr  
 145 150 155 160  
 Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val  
 165 170 175  
 Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr  
 180 185 190  
 Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu  
 195 200 205  
 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn  
 210 215 220  
 Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln  
 225 230 235 240  
 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser  
 245 250 255  
 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg  
 260 265 270  
 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln  
 275 280 285  
 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His  
 290 295 300  
 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala  
 305 310 315

&lt;210&gt; 1062

&lt;211&gt; 302

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)



<223> Xaa equals any amino acid

<400> 1062

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Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu
 1           5           10           15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
          20           25           30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn
          35           40           45

Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
          50           55           60

Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
          65           70           75           80

Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
          85           90           95

Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His
          100          105          110

Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa
          115          120          125

Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser
          130          135          140

Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser
          145          150          155          160

Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp
          165          170          175

Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn
          180          185          190

Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr
          195          200          205

Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln
          210          215          220

Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp
          225          230          235          240

Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr
          245          250          255

Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala
          260          265          270

Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly
          275          280          285

Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val
          290          295          300

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<210> 1063  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1063  
 Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Leu Ala Val Trp Val  
 1 5 10 15  
 Val Ser Phe Gly Val Ala Lys Gln Ala Ile Leu Ile His Asn Glu Arg  
 20 25 30  
 Arg Val Asp Trp Leu Phe Arg Gly Pro Ser Thr Thr Pro Thr Ser Pro  
 35 40 45  
 Ser Ser Gly Arg Ser Arg Ala Thr Ser Thr Val  
 50 55

<210> 1064  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any amino acid

<400> 1064  
 Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu Gly  
 1 5 10 15  
 Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly Asp  
 20 25 30  
 Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser Val  
 35 40 45  
 Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn Thr  
 50 55 60  
 Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu Gly  
 65 70 75 80  
 His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Xaa Arg Lys  
 85 90 95  
 Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu  
 100 105

<210> 1065  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (45)  
 <223> Xaa equals any amino acid

<400> 1065  
 Ile Asn His Val Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile  
           1                  5                  10                  15  
 Leu Phe Thr Met His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln  
                   20                  25                  30  
 Phe Pro Phe Val Gly Asn Ala Arg His Ser Leu Thr Xaa Lys  
           35                  40                  45

<210> 1066  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 1066  
 Thr Val Ala Ile Tyr Asp  
           1                  5

<210> 1067  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 1067  
 Phe Leu Val Cys Leu Leu Leu Gly Pro Arg Ser  
           1                  5                  10

<210> 1068  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any amino acid

<400> 1068  
 Lys Ser Gln Met Gln Ser Phe Thr Ile Val Thr Ala Tyr Gly Arg Cys  
           1                  5                  10                  15

Leu Ser Leu Thr Cys Leu Pro Thr Leu Asn Gln Met Leu Val Phe Lys  
                   20                                  25                                  30

Ser Asn Xaa Ser Leu Val Ser Pro His Xaa Leu Thr Phe Xaa Asn Ile  
                   35                                  40                                  45

Phe Ala Arg Phe Glu Asn Phe Gln  
           50                                  55

<210> 1069

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1069

Asn Tyr Asn Arg Gly Gly Thr Phe Leu Tyr Gln Lys Ala Lys Ile Lys  
   1                                  5                                  10                                  15

His His Val Leu Met Val Phe Tyr Lys Ser Thr Ser Asn Ser Thr Glu  
                   20                                  25                                  30

Ser Leu Ile Trp Ser Leu Leu Asn Ser Trp Ser Asp Lys Val Thr Phe  
                   35                                  40                                  45

Pro Lys Arg Val Arg  
           50

<210> 1070

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1070

Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
   1                                  5                                  10                                  15

Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
                   20                                  25                                  30

Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
                   35                                  40                                  45

<210> 1071

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any amino acid

<220>

<221> SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1071

Ser Trp Val Ile Val Val Xaa Ile Trp Gly Tyr Leu Leu Glu Gly His  
 1 5 10 15

Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Xaa Pro Trp Lys Leu His  
 20 25 30

Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg Ile  
 35 40 45

Leu Gly Asn Ser Pro Cys Pro Val Leu Ile His Cys Ser Phe Ser Gly  
 50 55 60

&lt;210&gt; 1072

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1072

Trp Lys Gly Leu Leu Glu Gly Ser Xaa Glu Ala Thr Met Xaa  
 1 5 10

&lt;210&gt; 1073

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1073

Pro Leu Gly Arg Glu Pro Leu Ala Gly Phe Leu Ser Phe Leu Ser Phe  
 1 5 10 15

Ser Leu Leu Trp Cys Leu Glu Ala Phe Pro Arg Leu Gln Phe Leu Thr  
 20 25 30

Thr Leu Thr Asp Phe Ala Ile Val Leu Ser Pro Pro Leu Ser Phe Pro  
 35 40 45

Lys Leu Thr Leu Trp Arg Leu Ile Lys Arg Lys Asn His Arg Pro Gly  
     50                    55                    60  
 Ala Xaa Leu Thr Pro Arg Arg Arg Ala Asn His Leu Arg Cys Gly Val  
     65                    70                    75                    80  
 Arg Asp Gln Pro Asp Gln Asn Arg Glu Thr Pro Ser Leu Leu Asn Asn  
                     85                    90                    95  
 Thr Lys Leu Ala Gly Arg Gly Gly Ala Arg Leu  
             100                    105

<210> 1074  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 1074  
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
     1                    5                    10                    15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr  
             20                    25                    30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
             35                    40                    45  
 Ser Ser His Ser Pro Arg Gly Pro Gly Gly His Pro Ala Leu Arg Gln  
     50                    55                    60  
 Arg Leu Pro Cys Arg Arg Gly Glu Pro Glu Thr Ala Leu Cys Ser Ser  
     65                    70                    75                    80  
 Ala Pro Gly Ala Gly Phe Ala Glu Pro Pro Cys Lys Ala Ser Pro Gly  
             85                    90                    95  
 Trp Gly Pro Pro Ser Arg Gly Pro Gln Gly Asp Arg Ser Gln Gly Glu  
             100                    105                    110  
 Trp Leu Pro Ala Leu Gly Thr Pro Cys Gly Gly Pro Asp Asp Ser  
             115                    120                    125

<210> 1075  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any amino acid

&lt;400&gt; 1075

Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
 1 5 10 15  
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Xaa Tyr  
 20 25 30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
 35 40 45  
 Ser Ser His Ser Pro Arg Thr Trp Xaa Thr Pro Ser Ser Gln Thr Lys  
 50 55 60  
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys  
 65 70 75 80  
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met  
 85 90

&lt;210&gt; 1076

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (185)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1076

Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro  
 1 5 10 15  
 Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His  
 20 25 30  
 Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys  
 35 40 45  
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr  
 50 55 60  
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys  
 65 70 75 80  
 Asp Leu Cys Leu Arg Val Xaa Val His Leu Ala Val His Gly His Trp  
 85 90 95  
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly  
 100 105 110  
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser  
 115 120 125

Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val  
 130 135 140  
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr  
 145 150 155 160  
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr  
 165 170 175  
 Thr Gln Pro Arg Tyr Glu Lys Glu Xaa Asn His Thr Gln Gln Leu Pro  
 180 185 190  
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala  
 195 200 205  
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val  
 210 215 220  
 Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn  
 225 230 235 240  
 Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly  
 245 250 255  
 Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys  
 260 265 270  
 Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Arg Thr Ser Ala  
 275 280 285  
 Pro Ser Gly Arg Thr Pro Ala His Thr Arg Thr Ser Gly Lys Pro Pro  
 290 295 300  
 Asp Cys Asp Cys  
 305

<210> 1077  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 1077  
 Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met  
 1 5 10 15  
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu  
 20 25 30  
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser  
 35 40 45  
 Val Ser Asn Thr Ile Cys Ile  
 50 55

<210> 1078  
 <211> 99



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1078

Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu  
 1 5 10 15

Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
 20 25 30

Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
 35 40 45

Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
 50 55 60

Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu  
 65 70 75 80

Leu Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg  
 85 90 95

Val Thr Gly

&lt;210&gt; 1079

&lt;211&gt; 214

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (199)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (206)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (214)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1079

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro  
 20 25 30

Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp  
 35 40 45

Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly  
 50 55 60  
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg  
 65 70 75 80  
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro  
 85 90 95  
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys  
 100 105 110  
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
 115 120 125  
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
 130 135 140  
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
 145 150 155 160  
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
 165 170 175  
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
 180 185 190  
 Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val  
 195 200 205  
 Gly Ser Ala Gln Cys Xaa  
 210

<210> 1080  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1080  
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
 1 5 10 15  
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr  
 20 25 30  
 Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro  
 35 40

<210> 1081  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1081  
 Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
                   20                  25                  30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
                   35                  40                  45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
                   50                  55                  60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
                   65                  70                  75                  80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
                   85                  90                  95

Leu Pro

<210> 1082  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 1082  
 Leu Pro Arg Pro Cys Ala Pro Ser Pro Val Trp Arg Gln Val Gly Arg  
           1                  5                  10                  15

Glu Glu Ala Ser Leu Leu  
                   20

<210> 1083  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any amino acid

<400> 1083  
 Cys Ala Val Arg Phe Arg Glu Gln Xaa Ala Pro Glu Arg Val Phe Leu  
           1                  5                  10                  15

Pro Thr Arg Gly Arg Lys Ser Glu Pro  
                   20                  25

<210> 1084  
 <211> 333  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (227)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1084

Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val  
 1 5 10 15

Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln  
 20 25 30

Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met  
 35 40 45

Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr  
 50 55 60

Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr  
 65 70 75 80

Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr  
 85 90 95

Pro Gly Leu Xaa Pro Lys Asp Pro Arg Pro Ser Leu Leu Glu Xaa Asp  
 100 105 110

Phe Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu  
 115 120 125

Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu  
 130 135 140

Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly  
 145 150 155 160

Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val  
 165 170 175

Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu  
 180 185 190

Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu  
 195 200 205

Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val  
 210 215 220

Ser Val Xaa Ala Ala Ile Pro Ser Thr Ile Leu Arg Leu Pro Ala Ala  
 225 230 235 240

Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Leu Val Arg Val  
 245 250 255

Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu  
 260 265 270

His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln  
 275 280 285

Ala Ile Pro Leu Val Ser Val Ala Ser Val Ala Ala Gly Lys Ala Lys  
 290 295 300

Lys Gln Val Phe Tyr Gly Glu Glu Glu Arg Leu Lys Lys Pro Pro Arg  
 305 310 315 320

Leu Gln Glu Ser Cys Asp Ser Asp His Gly Gly Gly Arg  
 325 330

&lt;210&gt; 1085

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (201)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1085

Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe  
 1 5 10 15

Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly  
 20 25 30

Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu  
 35 40 45

Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys  
 50 55 60

Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu  
 65 70 75 80

Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg  
 85 90 95

Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr  
 100 105 110

Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg  
 115 120 125

Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Xaa  
 130 135 140

Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly  
 145 150 155 160  
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu  
 165 170 175  
 Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His  
 180 185 190  
 Ser Glu Asn Pro Lys Tyr Pro Glu Xaa Gly Asp Leu Arg Val Ser Phe  
 195 200 205  
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His  
 210 215 220  
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe  
 225 230 235 240  
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe  
 245 250 255  
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys  
 260 265 270  
 Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu  
 275 280 285  
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val  
 290 295 300  
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val  
 305 310 315 320  
 Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr  
 325 330 335  
 Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile  
 340 345 350  
 Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu  
 355 360 365

&lt;210&gt; 1086

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (159)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1086

Met Lys Leu Leu Leu Trp Ala Cys Ile Val Cys Val Ala Phe Ala Arg  
 1 5 10 15

Lys Arg Arg Phe Pro Phe Ile Gly Glu Asp Asp Asn Asp Asp Gly His  
 20 25 30

Pro Leu His Pro Ser Leu Asn Ile Pro Tyr Gly Ile Arg Asn Leu Pro  
           35                          40                          45  
 Pro Pro Leu Tyr Tyr Arg Pro Val Asn Thr Val Pro Ser Tyr Pro Gly  
           50                          55                          60  
 Asn Thr Tyr Thr Asp Thr Gly Leu Pro Ser Tyr Pro Trp Ile Leu Thr  
   65                          70                          75                          80  
 Ser Pro Gly Phe Pro Tyr Val Tyr His Ile Arg Gly Phe Pro Leu Ala  
                           85                          90                          95  
 Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val  
                           100                          105                          110  
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Ala Ala Pro Pro  
           115                          120                          125  
 Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val  
   130                          135                          140  
 Ala Ala Glu Pro Ala Ala Arg Gly Pro Val Ala Ala Glu Pro Xaa Gly  
   145                          150                          155                          160  
 Arg Gly His Leu Leu Glu Leu Glu Pro Ala Ala Glu Ala Pro Val Ala  
                           165                          170                          175  
 Ala Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu  
                           180                          185                          190  
 Glu Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu  
           195                          200                          205  
 Pro His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln  
           210                          215                          220

&lt;210&gt; 1087

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

<223> Xaa equals any amino acid

<400> 1087

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
20 25 30

Ile Cys Ser Gln Arg Asn Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa  
35 40 45

Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro  
50 55 60

His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly Asn Gly Lys  
65 70 75 80

Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe  
85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe  
100 105

<210> 1088

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (48)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (54)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (55)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (68)

<223> Xaa equals any amino acid

<400> 1088

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His



20 25 30  
 Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa  
 35 40 45  
 Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser  
 50 55 60  
 Pro Pro Leu Xaa Ser Asp Pro Lys Arg  
 65 70

<210> 1089  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any amino acid

<400> 1089  
 Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His  
 1 5 10 15

Pro Ala Ser Arg Thr Leu Cys Leu Met Xaa Gln Ala Xaa  
 20 25

<210> 1090  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1090  
 Pro His Cys Ala Ser Arg Ala Val Pro Tyr Pro Pro Gly Pro Ala Ala  
 1 5 10 15

Ala Ala Phe Pro Arg Gln Gly Leu Gln Leu Ala Thr Thr Cys Gly His  
 20 25 30

Ser Ser Asp Pro Ala Cys Phe Gly Gln Cys Pro Cys His Leu Cys Ala  
 35 40 45

Asn His Pro Gly Tyr Leu Trp Ser Tyr Arg Val His Leu Ser Pro Gln  
 50 55 60

Pro His Leu His Pro Pro Gln His Leu Leu Pro Pro His Cys Thr Leu  
 65 70 75 80

<210> 1091  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1091  
 Met Ser Lys Arg Ser Ala Ser Phe Ile Leu Leu Pro Leu Leu Phe Leu  
 1 5 10 15  
 Lys Gly Ser Phe Ala Lys Leu Asn Ala Arg Ile Ser Asp Cys Leu Glu  
 20 25 30  
 Glu Arg Tyr Cys His Asn Leu Trp Met Val Phe Gln Gly Cys Val Ile  
 35 40 45  
 Thr Glu Leu His Leu Ser Arg Met Ser Lys Thr Leu Ser Ser Leu Cys  
 50 55 60  
 Tyr Asp Phe Val Ile Asn Val Tyr Ile Phe Phe Lys Phe Leu Asp Ile  
 65 70 75 80  
 Thr

<210> 1092  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1092  
 Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu  
 1 5 10 15  
 Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu  
 20 25 30  
 Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln  
 35 40 45  
 Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr  
 50 55 60  
 Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly  
 65 70 75 80  
 Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg  
 85 90 95  
 Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln  
 100 105 110  
 Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln  
 115 120 125  
 Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe  
 130 135 140

Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu  
 145 150 155

<210> 1093  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1093  
 Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe  
 1 5 10 15

Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu  
 20 25 30

Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly  
 35 40 45

Cys Cys Gln Arg Ala Pro Asp Asn Cys Glu Ser His Cys Ala Glu Lys  
 50 55 60

Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr  
 65 70 75 80

Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn  
 85 90 95

Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg  
 100 105 110

Gln Lys Leu Ala Lys Lys Met Phe Phe  
 115 120

<210> 1094  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1094

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Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
 1           5           10           15

Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
          20           25           30

Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
          35           40           45

Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
          50           55           60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
          65           70           75           80

Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp
          85           90           95

Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr
          100          105          110

Phe Ser Ser Gln Val Leu Leu Pro Leu Leu
          115          120

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&lt;210&gt; 1095

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1095

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Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
 1           5           10           15

Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
          20           25           30

Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
          35           40           45

Cys Met Asp Cys Ser Thr Ser Cys Pro Leu Pro Ala Ala Leu Ala His
          50           55           60

Pro Trp Gly Arg Ser Glu Pro Asp Leu Arg Ala Gly Ala Ala Phe Trp
          65           70           75           80

Leu Phe Gly Leu Glu Thr Met Pro Gln Arg Glu Lys Phe Thr Thr Pro
          85           90           95

Ile Glu Glu Thr Gly Gly Glu Gly Cys Pro Ala Val Ala Leu Ile Gln
          100          105          110

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&lt;210&gt; 1096

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1096

Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly  
 1 5 10 15

Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly  
 20 25 30

Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys  
 35 40 45

Cys Met Asp Cys Ser Thr Ser Cys Pro Leu Pro Ala Ala Leu Ala His  
 50 55 60

Pro Trp Gly Arg Ser Glu Pro Asp Leu Arg Ala Gly Ala Ala Phe Trp  
 65 70 75 80

Leu Phe Gly Leu Glu Thr Met Pro Gln Glu Arg Glu Val His His Pro  
 85 90 95

His Arg Gly Asp Arg Arg Arg Gly Leu Pro Ser Cys Gly Ala Asp Pro  
 100 105 110

Val Thr Met Cys Pro Leu Pro Ala Gly Ala Arg Pro Leu Ile Ile His  
 115 120 125

Ser Ser Ile Leu Glu Pro Val Ser Ala Ser Gln Thr Arg Arg Glu Pro  
 130 135 140

Ser Ser Ser Asn His Lys Gly Gly Gly Gly Arg  
 145 150 155

&lt;210&gt; 1097

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1097

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala  
 1 5 10 15

Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
 20 25 30

Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
 35 40 45

&lt;210&gt; 1098

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1098

Met Ser Lys Ala Arg Phe Pro Phe Leu Leu Ser Leu Arg Trp Phe Ser  
 1 5 10 15

Ala

&lt;210&gt; 1099

&lt;211&gt; 549

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (398)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1099

Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys  
 1 5 10 15

Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro  
 20 25 30

Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu  
 35 40 45

Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu  
 50 55 60

Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu  
 65 70 75 80

Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp  
 85 90 95

Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu  
 100 105 110

Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg  
 115 120 125

Gly Leu Lys Xaa Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln  
 130 135 140

Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu Asp Ser Leu Thr Asn Val  
 145 150 155 160

Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu  
 165 170 175

Val Glu Trp Leu Gly His Thr Asn Ala Thr Val Glu Asp Ile Tyr Cys  
 180 185 190  
 Glu Gly Pro Pro Glu Tyr Lys Lys Arg Lys Ile Asn Ser Leu Ser Ser  
 195 200 205  
 Lys Asp Phe Asp Cys Ile Ile Thr Glu Phe Ala Lys Ser Gln Asp Leu  
 210 215 220  
 Pro Tyr Gln Ser Leu Ser Ile Asp Thr Phe Ser Tyr Leu Asn Asp Glu  
 225 230 235 240  
 Tyr Val Val Ile Ala Gln Pro Phe Thr Gly Lys Cys Ile Phe Leu Glu  
 245 250 255  
 Trp Asp His Val Glu Lys Thr Phe Arg Asn Tyr Asp Asn Ile Thr Gly  
 260 265 270  
 Thr Ser Thr Val Val Cys Lys Pro Ile Val Ile Glu Thr Gln Leu Tyr  
 275 280 285  
 Val Ile Val Ala Gln Leu Phe Gly Gly Ser His Ile Tyr Lys Arg Asp  
 290 295 300  
 Ser Phe Ala Asn Lys Phe Ile Lys Ile Gln Asp Ile Glu Ile Leu Lys  
 305 310 315 320  
 Ile Arg Lys Pro Asn Asp Ile Glu Thr Phe Lys Ile Glu Asn Asn Trp  
 325 330 335  
 Tyr Phe Val Val Ala Asp Ser Ser Lys Ala Gly Phe Thr Thr Ile Tyr  
 340 345 350  
 Lys Trp Asn Gly Asn Gly Phe Tyr Ser His Gln Ser Leu His Ala Trp  
 355 360 365  
 Tyr Arg Asp Thr Asp Val Glu Tyr Leu Glu Ile Val Arg Thr Pro Gln  
 370 375 380  
 Thr Leu Arg Thr Pro His Leu Ile Leu Ser Ser Ser Ser Xaa Arg Pro  
 385 390 395 400  
 Val Ile Tyr Gln Trp Asn Lys Ala Thr Gln Leu Phe Thr Asn Gln Thr  
 405 410 415  
 Asp Ile Pro Asn Met Glu Asp Val Tyr Ala Val Lys His Phe Ser Val  
 420 425 430  
 Lys Gly Asp Val Tyr Ile Cys Leu Thr Arg Phe Ile Gly Asp Ser Lys  
 435 440 445  
 Val Met Lys Trp Gly Gly Ser Ser Phe Gln Asp Ile Gln Arg Met Pro  
 450 455 460  
 Ser Arg Gly Ser Met Val Phe Gln Pro Leu Gln Ile Asn Asn Tyr Gln  
 465 470 475 480  
 Tyr Ala Ile Leu Gly Ser Asp Tyr Ser Phe Thr Gln Val Tyr Asn Trp  
 485 490 495  
 Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln

<210> 1102  
<211> 170



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1102

```

Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
 1              5              10              15

Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
      20              25              30

Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
      35              40              45

Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
      50              55              60

Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65              70              75              80

Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
      85              90              95

Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
      100             105             110

Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
      115             120             125

Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
      130             135             140

Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
      145             150             155             160

Ile Lys Trp Ala Ser Arg Trp Asp Thr Tyr
      165             170

```

&lt;210&gt; 1103

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1103

```

His Ala Ser Gly Ala Arg Arg Arg Leu Gln Ala Pro Pro Val Pro His
 1              5              10              15

Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu Tyr Asp
      20              25              30

Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala Leu Gln
      35              40              45

Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val His Gly
      50              55              60

Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe Lys Arg
      65              70              75              80

Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val Pro Trp

```

[illegible]

```
<210> 1104
<211> 11
<212> PRT
<213> Homo sapiens
```

```
<400> 1104
Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val
  1                      5                      10
```

```
<210> 1105
<211> 130
<212> PRT
<213> Homo sapiens
```

```

<400> 1105
Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly
 1              5              10              15

Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val
      20              25              30

Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr
      35              40              45

Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly Gln Arg Glu Gly Pro
      50              55              60

Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu
 65              70              75              80

Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr Ser Ala His
      85              90              95

Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg
      100              105              110

Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala Asn Thr
      115              120              125

Leu Asn
      130

```

<210> 1106  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any amino acid

<400> 1106  
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg  
 1 5 10 15  
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala  
 20 25 30  
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu  
 35 40 45  
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu  
 50 55 60  
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro  
 65 70 75 80  
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu  
 85 90 95  
 Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly  
 100 105 110  
 Pro Gly Ala Leu Val Thr Trp Thr Pro Gly  
 115 120

<210> 1107  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 1107  
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln  
 1 5 10 15  
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg  
 20 25 30  
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile  
 35 40 45  
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser  
 50 55 60

Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp  
 65 70 75 80  
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr  
 85 90 95  
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn  
 100 105 110  
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser  
 115 120 125  
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala  
 130 135 140  
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu  
 145 150 155 160  
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys  
 165 170 175  
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr  
 180 185 190  
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His  
 195 200 205  
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val  
 210 215 220  
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile  
 225 230 235 240  
 Gly Tyr Gln

&lt;210&gt; 1108

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1108

Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
 1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
 20 25 30

Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
 35 40 45

Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
 50 55 60

Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu  
 65 70 75 80  
 Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe  
 85 90 95  
 Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met  
 100 105 110  
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln  
 115 120 125  
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val  
 130 135 140  
 Leu His Val Ser Trp Xaa Asp Ala Arg Ala  
 145 150

<210> 1109  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1109  
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro  
 1 5 10 15  
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu  
 20 25 30  
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala  
 35 40 45  
 Trp Phe Ile Ala Gly Ile Phe Leu Leu  
 50 55

<210> 1110  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any amino acid

<400> 1110  
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15  
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
 20 25 30  
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
 35 40 45  
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser

50                      55                      60  
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile  
 65                      70                      75                      80  
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile  
                     85                      90                      95  
 Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met  
                     100                      105

<210> 1111  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1111  
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1                      5                      10                      15  
 Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser  
                     20                      25                      30  
 Phe Val Cys Ser Cys  
                     35

<210> 1112  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 1112  
 Met Lys Ser Gln Cys Tyr Ser Pro Ser Tyr Phe Ala Phe Phe Cys Leu  
 1                      5                      10                      15  
 Val Phe Phe Gln Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His  
                     20                      25                      30  
 Val Leu Cys Arg Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys  
                     35                      40                      45

<210> 1113  
 <211> 442  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (364)  
 <223> Xaa equals any amino acid

<400> 1113  
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr  
 1                      5                      10                      15

Ser Ser Arg Gly Ala Gly Cys Cys Cys Cys Trp Ala Arg Trp Arg Arg  
                   20                                  25                                  30  
 Ala Val His Thr Ala Arg Gly Leu Arg Gly Arg Pro Arg Arg Gln Leu  
                   35                                  40                                  45  
 Leu Arg Pro Leu Arg Pro Ala Gln Gly Leu Ala Pro Gly Arg His Arg  
                   50                                  55                                  60  
 Leu Arg Pro Ala Val Leu Pro Leu His Leu Gln Pro Leu Pro Gly Leu  
                   65                                  70                                  75                                  80  
 Trp Gly Gly His Ala Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro Phe  
                                   85                                  90                                  95  
 Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His Leu  
                                   100                                  105                                  110  
 Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu Leu  
                   115                                  120                                  125  
 Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val Tyr  
                   130                                  135                                  140  
 Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val Glu  
                   145                                  150                                  155                                  160  
 Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp Val  
                                   165                                  170                                  175  
 Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala Val  
                                   180                                  185                                  190  
 Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro His  
                   195                                  200                                  205  
 Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr Ala  
                   210                                  215                                  220  
 Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe Tyr  
                   225                                  230                                  235                                  240  
 Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu Ser  
                                   245                                  250                                  255  
 Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro Lys  
                   260                                  265                                  270  
 Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe Leu  
                   275                                  280                                  285  
 Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn Met  
                   290                                  295                                  300  
 Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp Val  
                   305                                  310                                  315                                  320  
 Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val Leu  
                                   325                                  330                                  335  
 Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met Thr

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<400> 1114
Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg
  1                               10                      15

Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg
                20                      25                      30

Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln
        35                      40                      45

Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly
  50                      55                      60

Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg
  65                      70                      75                      80

Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala
                85                      90                      95

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Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala  
 100 105 110  
 Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn  
 115 120 125  
 Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu  
 130 135 140  
 Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly  
 145 150 155 160  
 Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg  
 165 170 175  
 Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala  
 180 185 190  
 Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala  
 195 200 205  
 Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala  
 210 215 220  
 Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val  
 225 230 235 240  
 Tyr Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val  
 245 250 255  
 Met Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg  
 260 265 270  
 Ala Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly  
 275 280 285  
 Val Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro  
 290 295 300  
 Thr Arg Leu Arg Arg  
 305

&lt;210&gt; 1115

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1115

Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg  
 1 5 10 15

Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg  
 20 25 30

Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln  
 35 40 45

Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly  
 50 55 60

Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg  
 65 70 75 80

Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala  
 85 90 95

Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala  
 100 105 110

Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn  
 115 120 125

Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu  
 130 135 140

Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly  
 145 150 155 160

Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg  
 165 170 175

Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala  
 180 185 190

Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala  
 195 200 205

Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala  
 210 215 220

Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys  
 225 230 235 240

Thr Ala Pro

&lt;210&gt; 1116

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1116

Met Leu Ser Ile Ile Pro Asn Asp Arg Leu Phe Ile Asn Leu Ile Phe

1 5 10 15  
 Leu Ser Asn Phe Leu Pro Ser Val Leu Trp Glu Pro Ala Gly Gln Met  
 20 25 30  
 Trp Tyr Thr His Val Arg Tyr Pro Ser Gly Arg Leu Leu Ser Leu  
 35 40 45

<210> 1117  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 1117  
 Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly  
 1 5 10 15  
 Leu Leu Val Leu Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Ala Leu  
 20 25 30  
 Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro  
 35 40 45  
 Pro Leu Ala Arg Leu Ala Leu Leu Ala Ala Ser Gly Gly Gln Cys Pro  
 50 55 60  
 Glu Val Arg Arg Arg Gly Arg Cys Arg Pro Gly Ala Gly Ala Gly Ala  
 65 70 75 80  
 Ser Ala Gly Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln Arg  
 85 90 95  
 Leu Arg Ile Ser Arg Arg Ala Ser Trp Arg Ser Cys Cys Ala Ser Gly  
 100 105 110  
 Ala Pro Pro Ala Thr Leu Ile Arg Leu Trp Ala Trp Thr Thr Thr Pro  
 115 120 125  
 Thr Arg Leu Gln Arg Ser Ser Leu Ala Leu Cys Ser Ala Pro Ala Leu  
 130 135 140  
 Thr Leu Pro Pro  
 145

<210> 1118  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any amino acid

<400> 1118  
 Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu  
 1 5 10 15

Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr  
                   20                  25                  30  
 Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys  
                   35                  40                  45  
 Ile Ser Ala Ala Tyr Val Leu Ala Pro Leu Gln Asn Pro Val Ser Ser  
                   50                  55                  60  
 Leu  
   65

<210> 1119  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any amino acid

<400> 1119  
 Gly Gly Glu Glu Glu Gly Glu Glu Gly Ala Glu Ile Ser Gly Leu Gly  
   1                  5                  10                  15  
 Ala Gly Arg Arg Ser Ala Pro Ile Ala Val Gly Leu Gly Phe Leu Gly  
                   20                  25                  30  
 Val Gly Gly Arg Gly Gly Ser Asp Met Glu Ala Asn Gly Ser Gln Gly  
                   35                  40                  45  
 Thr Ser Gly Ser Ala Asn Asp Ser Gln His Asp Pro Gly Lys Met Phe  
                   50                  55                  60  
 Ile Gly Gly Leu Ser Trp Gln Thr Ser Pro Asp Ser Leu Arg Asp Tyr  
   65                  70                  75                  80  
 Phe Ser Lys Phe Gly Glu Ile Arg Glu Cys Met Val Met Arg Asp Pro  
                   85                  90                  95  
 Thr Thr Lys Arg Ser Arg Gly Phe Gly Phe Val Thr Phe Ala Asp Pro  
                   100                  105                  110  
 Ala Ser Val Asp Lys Val Leu Gly Gln Pro His His Glu Leu Asp Ser  
                   115                  120                  125  
 Lys Thr Ile Asp Pro Lys Val Ala Phe Pro Arg Arg Ala Gln Pro Lys  
                   130                  135                  140  
 Met Val Thr Arg Thr Lys Lys Ile Phe Val Gly Gly Leu Ser Ala Asn  
   145                  150                  155                  160

Thr Val Val Glu Asp Val Lys Gln Tyr Phe Glu Xaa Phe Xaa Lys Val  
 165 170 175  
 Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly  
 180 185 190  
 Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu Lys Val Cys  
 195 200 205  
 Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Glu Cys Lys Lys  
 210 215 220  
 Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala  
 225 230 235 240  
 Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met  
 245 250 255  
 Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala  
 260 265 270  
 Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu  
 275 280 285  
 Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu  
 290 295

<210> 1120  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 1120  
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys  
 1 5 10 15  
 Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly  
 20 25 30  
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile  
 35 40 45  
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser  
 50 55 60  
 Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His  
 65 70 75 80  
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala  
 85 90 95  
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn  
 100 105 110  
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile  
 115 120 125  
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile  
 130 135 140

Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys  
145 150 155 160

Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu  
165 170 175

Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser  
180 185 190

Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu  
195 200 205

Thr Lys Val Arg Lys Lys Asn  
210 215

<210> 1121

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1121

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala  
1 5 10 15

His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro  
20 25 30

Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg  
35 40 45

Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Thr Lys Arg Val  
50 55 60

Gln Gln Met Leu Leu Phe His Ser Tyr Gly Ile Ala Gln  
65 70 75

<210> 1122

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (180)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (182)

<223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (188)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (208)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (218)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (219)  
 <223> Xaa equals any amino acid

<400> 1122

Met	Ala	Leu	Arg	Leu	Leu	Arg	Arg	Ala	Ala	Arg	Gly	Ala	Ala	Ala	Ala
1				5				10					15		
Ala	Leu	Leu	Arg	Leu	Lys	Ala	Ser	Leu	Ala	Ala	Asp	Ile	Pro	Arg	Leu
			20					25					30		
Gly	Tyr	Ser	Ser	Ser	Ser	His	His	Lys	Tyr	Ile	Pro	Arg	Arg	Ala	Val
		35					40					45			
Leu	Tyr	Val	Pro	Gly	Asn	Asp	Glu	Lys	Lys	Ile	Lys	Lys	Ile	Pro	Ser
	50					55					60				
Leu	Asn	Val	Asp	Cys	Ala	Val	Leu	Asp	Cys	Glu	Asp	Gly	Val	Ala	Ala
65					70					75				80	
Asn	Lys	Lys	Asn	Glu	Ala	Arg	Leu	Arg	Ile	Val	Lys	Thr	Leu	Glu	Asp
			85					90					95		
Ile	Asp	Leu	Gly	Pro	Thr	Glu	Lys	Cys	Val	Arg	Val	Asn	Ser	Val	Ser
		100						105					110		
Ser	Gly	Leu	Ala	Glu	Glu	Asp	Leu	Glu	Thr	Leu	Leu	Gln	Ser	Arg	Val
	115						120					125			
Leu	Pro	Ser	Ser	Leu	Met	Leu	Pro	Lys	Val	Glu	Ser	Pro	Glu	Glu	Ile
	130					135					140				
Gln	Trp	Ala	Val	Cys	Glu	Glu	Thr	Leu	Lys	Val	Gly	Pro	Gln	Val	Gly
145				150						155					160

Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His  
 165 170 175  
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg  
 180 185 190  
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa  
 195 200 205  
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser  
 210 215 220  
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro  
 225 230 235 240  
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys  
 245 250 255  
 Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln  
 260 265 270  
 Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro  
 275 280 285  
 Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys  
 290 295 300  
 Glu Lys  
 305

<210> 1123  
 <211> 406  
 <212> PRT  
 <213> Homo sapiens

<400> 1123  
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu  
 1 5 10 15  
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr  
 20 25 30  
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val  
 35 40 45  
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu  
 50 55 60  
 His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro  
 65 70 75 80  
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser  
 85 90 95  
 Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu  
 100 105 110  
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser



115	120	125
Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile 130	135	140
Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys 145	150	155 160
Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg 165	170	175
Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu 180	185	190
Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn 195	200	205
Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu 210	215	220
Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys 225	230	235 240
Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu 245	250	255
Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp 260	265	270
Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile 275	280	285
Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe 290	295	300
Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val 305	310	315 320
Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys 325	330	335
Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His 340	345	350
Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp 355	360	365
Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu 370	375	380
Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu 385	390	395 400
Arg Asp Arg Asp Glu Leu 405		

&lt;210&gt; 1124

&lt;211&gt; 64

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1124

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Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp
 1             5             10             15

Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His
          20             25             30

Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg
          35             40             45

Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile
 50             55             60

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<210> 1125

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1125

```

Met Ser Phe Pro His Ala Ser Thr Leu Pro Phe His Lys Leu Ser Asp
 1             5             10             15

Leu Gln His Thr Leu Pro Asn His Gln Gly
          20             25

```

<210> 1126

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (10)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (22)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (35)

<223> Xaa equals any amino acid

<220>

<221> SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1126

Val	His	Ala	Xaa	Thr	Pro	Phe	Ala	Gly	Xaa	Cys	Phe	Asp	Pro	Val	Ser
1				5					10					15	

Leu	Tyr	Trp	Cys	Tyr	Xaa	Asn	Pro	Gly	Thr	His	Cys	Tyr	Pro	Thr	Leu
			20					25					30		

Arg	Gly	Xaa	Glu	Gln	Arg	Xaa	Pro	Ser	Xaa	Arg	Ser	His	Ile	Val	Leu
		35					40					45			

Arg	Ser
	50

&lt;210&gt; 1127

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1127

Met	Ala	Phe	Leu	Leu	Glu	Arg	Ser	Gly	Thr	Leu	Leu	Ile	Cys	Ser	Met
1				5					10					15	

Trp	Trp	His	His	Gly	Tyr	Ser	Asn	Ile	Thr	Gly	Thr	Glu	Gly	Glu	Arg
			20					25					30		

Arg	Asn	Leu	Lys	Arg	Asn	Lys	Thr	Asn	Phe	Arg	Arg	Phe	Gln	Asp	Gly
		35					40					45			

Arg	Ile	Gly	Thr	Ala	Pro	Val	Tyr	Ser	Ser	Gln	Cys	Glu	Arg	Cys	Arg
	50					55					60				

Arg	Trp	Val	Ile	Ser	Ala	Phe	Pro	Thr	Glu	Gln	Thr	Xaa	His	Gln	Lys
65					70					75				80	

Ile	Ile	Ser	His	Ala	Trp	Leu	Gly	Gly	Ser	His	Ala	His	Gly	Ala	Ser
			85						90					95	

Leu	Ile	Ala	Ser	Thr	Ala	Val
						100

&lt;210&gt; 1128

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

Ile Pro Asn Glu Met Ala Gly Ser Ile Trp Pro Leu Gly Tyr Leu Ala  
 1 5 10 15

Thr Leu

&lt;210&gt; 1129

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1129

Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro  
 1 5 10 15

Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser  
 20 25 30

Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln  
 35 40 45

Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val  
 50 55 60

Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly  
 65 70 75 80

Pro Gly Pro Gly Xaa Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu  
 85 90 95

Glu Arg Arg Arg Ser His Cys Xaa Leu Glu Asn Glu Pro Leu Arg Gly  
 100 105 110

Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu  
 115 120 125

Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Trp Val  
 130 135 140

Leu Pro Gly His Arg Trp Gly Arg Ala Arg Ser Trp Lys Glu Met Arg  
 145 150 155 160

Cys His Leu Xaa Ala Asn Ala Thr Cys Ala Ser Thr Ser Leu Arg Ser  
                           165                          170                          175

Cys Val Leu Arg Arg Ala Pro Gly Pro Pro Leu Thr  
                           180                          185

<210> 1130

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1130

Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro  
   1                          5                          10                          15

Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu  
                           20                          25                          30

Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr  
                           35                          40                          45

Arg Pro Ile Pro Ser Phe Leu Lys Ile  
   50                          55

<210> 1131

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (65)

<223> Xaa equals any amino acid

<400> 1131

Gln Val Ser Leu Pro Thr Arg Leu Leu Gln Met Pro Gly Met Gly Leu  
   1                          5                          10                          15

Asp Ser Arg Phe Gln Ala Trp Xaa Pro Ser Pro Tyr Leu Gly Pro Gln  
                           20                          25                          30

Pro Arg Ala Pro Arg Pro Gly Leu Gln Pro Gly Pro Ser Leu Arg Gly  
                           35                          40                          45

Ala Glu Phe Arg Glu Ser Cys Pro Arg Ser Gln Lys Arg Gly Arg Glu  
   50                          55                          60

Xaa Gly Arg Pro Cys Pro Gly Cys Arg Pro Gly Gly Trp Gly Leu Pro  
   65                          70                          75                          80

Ala Arg Leu Gly Gln Pro Gln Leu Gln Thr Gly Pro Gly  
                           85                          90

<210> 1132  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1132  
 Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
           1                  5                  10                  15  
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr  
                   20                  25                  30  
 Gln Ala Cys Leu  
                   35

<210> 1133  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 1133  
 Leu Leu Leu Cys Lys Phe Lys Lys Val Asn Tyr Phe Leu Lys Val Leu  
           1                  5                  10                  15  
 Ile Ser Asn Phe Ser Ile Trp Ala Tyr Asp His His  
                   20                  25

<210> 1134  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1134  
 Cys Lys Trp Val Gln Asn Gly Gly His Pro Asn Val Glu Ser Ser Lys  
           1                  5                  10                  15  
 Tyr His Cys His Glu Pro Lys Ala Ser Leu Tyr Thr Leu Glu Glu Ser  
                   20                  25                  30  
 Thr Leu

<210> 1135  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any amino acid

&lt;400&gt; 1135

```

Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
 1           5           10           15

Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
          20           25           30

Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
 35           40           45

Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
 50           55           60

Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
 65           70           75           80

Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
          85           90           95

Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser
          100          105          110

Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp
          115          120          125

Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn
          130          135          140

Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp
          145          150          155          160

Cys Pro Ser Met Gln Glu Gln His Ser Xaa Glu Arg
          165          170

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&lt;210&gt; 1136

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1136

```

Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
 1           5           10           15

Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
          20           25           30

Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
          35           40           45

Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
          50           55           60

Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
          65           70           75           80

Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
          85           90           95

Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Ser Arg Pro Phe Pro

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100 105 110  
 Gly Pro Ala Asp Gln Pro Asn Pro Leu Ala Ser Cys Thr Gln Gln Thr  
 115 120 125  
 Pro Val Ser  
 130

<210> 1137  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1137  
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr  
 1 5 10 15  
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr  
 20 25 30  
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val  
 35 40 45  
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser  
 50 55 60  
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala  
 65 70 75 80  
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val  
 85 90 95  
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu  
 100 105 110  
 Phe Phe His His Phe Tyr His His Gln  
 115 120

<210> 1138  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any amino acid

<400> 1138  
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val  
 1 5 10 15  
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe  
 20 25 30  
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys  
 35 40 45



Ser

&lt;210&gt; 1139

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1139

Met Val Trp Phe Ser Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile  
 1 5 10 15

Leu Gly Ala Arg Gly Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg  
 20 25 30

His Cys Gly Leu Val Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala  
 35 40 45

Asp Val Leu Ala Val His Ser Gly Gln Val Ser His Ser Pro Glu Pro  
 50 55 60

Gln Arg Leu Tyr Gln Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro  
 65 70 75 80

His Gly Val Val Ser Ala Val Asn Glu Ile Met Tyr Met Lys His Leu  
 85 90 95

Val Tyr Leu Ala Pro Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr  
 100 105 110

Asn Lys Met Glu Leu Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg  
 115 120 125

Gln Ile Leu Gly Val Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro  
 130 135 140

Ser Leu Phe Gly  
 145

&lt;210&gt; 1140

&lt;211&gt; 484

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1140

Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Leu Trp Pro Leu Leu  
 1 5 10 15

Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
 20 25 30

Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg  
 35 40 45

Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
 50 55 60

Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
 65 70 75 80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
 85 90 95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
 100 105 110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
 115 120 125  
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
 130 135 140  
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
 145 150 155 160  
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
 165 170 175  
 Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val  
 180 185 190  
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
 195 200 205  
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp  
 210 215 220  
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val  
 225 230 235 240  
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe  
 245 250 255  
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg  
 260 265 270  
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu  
 275 280 285  
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala  
 290 295 300  
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val  
 305 310 315 320  
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr  
 325 330 335  
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe  
 340 345 350  
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser  
 355 360 365  
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys  
 370 375 380

Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln  
 385 390 395 400  
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe  
 405 410 415  
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu  
 420 425 430  
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala  
 435 440 445  
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn  
 450 455 460  
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
 465 470 475 480  
 Gln Ile His Arg

<210> 1141  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (224)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (255)

<223> Xaa equals any amino acid

<400> 1141

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Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu
 1           5           10           15

Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
      20           25           30

Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg
      35           40           45

Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
      50           55           60

Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
      65           70           75           80

Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
      85           90           95

Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
      100          105          110

Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
      115          120          125

Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu
      130          135          140

Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
      145          150          155          160

Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
      165          170          175

Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val
      180          185          190

Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
      195          200          205

Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa
      210          215          220

Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His
      225          230          235          240

Val Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Pro Ser Xaa Arg
      245          250          255

Phe Gln Glu Thr Leu Leu Arg Ser Trp Asn
      260          265

```

<210> 1142  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 1142  
 Val Leu Leu Ile Leu  
           1                  5

<210> 1143  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1143  
 Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe  
           1                  5                  10                  15

Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr  
                   20                  25                  30

Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn  
                   35                  40                  45

Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln  
           50                  55                  60

Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His Ala Cys Phe Leu Ser  
       65                  70                  75                  80

Phe Phe Tyr Leu

<210> 1144  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any amino acid

&lt;400&gt; 1144

Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala  
 1 5 10 15

Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val  
 20 25 30

Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala  
 35 40 45

Arg Xaa Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly  
 50 55 60

Gly Pro Val Pro Glu Xaa Leu Lys Glu Thr Thr Trp Asn Ala Gln Ile  
 65 70 75 80

Leu Arg Gly Lys Phe Xaa His Pro Gly Thr Pro Pro Arg Lys Leu Leu  
 85 90 95

Pro Pro Val Xaa Pro Phe Glu Lys Arg Gly Ser Phe Pro Thr Leu Leu  
 100 105 110

Gly Ser Pro  
 115

&lt;210&gt; 1145

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1145

Leu Val Val Leu Gly Val Cys Ala Ala Gln His Glu Leu Thr Pro Arg  
 1 5 10 15

Leu Arg Ala Gly Val Pro Val Gln Val Glu Arg Glu Asp Val Leu Leu  
 20 25 30

His Gln Leu Leu Leu His Gln Val Ile Lys Xaa Gly Lys His Ile Val  
 35 40 45

Asp Arg Asp Ala Gly Val Gly His Ala Gln Asp Ala Val Glu Leu Gly  
 50 55 60

Arg Asp Glu Gly Xaa Xaa Arg Leu Leu Gly Gly Phe Pro Glu Arg Leu  
 65 70 75 80

Pro Leu His Leu Asp Ala Ser Gln Ala Arg Gln Thr  
 85 90

<210> 1146

<211> 368

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (310)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (365)

<223> Xaa equals any amino acid

<400> 1146

Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala  
 1 5 10 15

Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile  
 20 25 30

Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala  
 35 40 45

Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu  
 50 55 60

Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr  
 65 70 75 80

Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe  
 85 90 95

Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu  
 100 105 110

Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser  
 115 120 125

Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser  
 130 135 140

Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys  
 145 150 155 160

Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg  
 165 170 175

Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala  
 180 185 190

Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val

195	200	205
Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val 210 215 220		
Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln 225 230 235 240		
Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys 245 250 255		
Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val 260 265 270		
His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu 275 280 285		
Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro 290 295 300		
Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly Ala Val Pro Leu 305 310 315 320		
Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro 325 330 335		
Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu 340 345 350		
Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Xaa Cys Leu Ser 355 360 365		

&lt;210&gt; 1147

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1147

Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe 1 5 10 15
Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala 20 25 30
Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys 35 40 45
Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro 50 55 60
Val Leu Arg Tyr Ala Ser Ile Glu 65 70

&lt;210&gt; 1148



<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 1148  
Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala  
1 5 10 15  
Ala Ala Arg Pro Gly Pro Thr Ser Val Pro Ala Gly Ala Ala Ala Cys  
20 25 30  
Pro Cys Gly Gly Thr Ser Cys Arg Gly Trp Gly Ala Gly Pro Thr Pro  
35 40 45  
Gly Arg Thr Ser Thr Cys Pro His Leu Thr Cys Pro Arg Ala Gly Thr  
50 55 60  
Gly Ala Thr  
65

<210> 1149  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 1149  
Pro Gln Gly Pro Asn Asp Val Thr Ala Lys Leu Leu Cys Pro  
1 5 10

<210> 1150  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 1150  
Met Leu Leu Leu Tyr Leu  
1 5

<210> 1151  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 1151  
Gly Glu Ile Phe Leu  
1 5

<210> 1152  
<211> 211  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
 <222> (45)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (195)  
 <223> Xaa equals any amino acid

<400> 1152  
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser  
           1                  5                  10                  15  
 Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu  
                   20                  25                  30  
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Xaa Asp Leu Met  
                   35                  40                  45  
 Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His  
           50                  55                  60  
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly  
           65                  70                  75                  80  
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys  
                   85                  90                  95  
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly  
                   100                  105                  110  
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn  
           115                  120                  125  
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe  
           130                  135                  140  
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val  
           145                  150                  155                  160  
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn  
                   165                  170                  175  
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp  
           180                  185                  190  
 Glu Asp Xaa Tyr Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His  
           195                  200                  205  
 Asp Glu Leu  
           210

<210> 1153  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (123)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (157)  
 <223> Xaa equals any amino acid

<400> 1153  
 Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile  
           1                  5                  10                  15  
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val  
                   20                  25                  30  
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg  
           35                  40                  45  
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val  
           50                  55                  60  
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys  
           65                  70                  75                  80  
 Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly  
                   85                  90                  95  
 Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg  
                   100                  105                  110  
 Glu Asn His Arg Pro Lys Lys Pro Lys Ser Xaa Thr Arg Cys Leu Val  
           115                  120                  125  
 Xaa Gln Asn Trp Ser Leu Pro Pro Ile Ser Lys Asp Arg Thr Ala Gly  
           130                  135                  140  
 Xaa Xaa Asp Thr Asn Arg Thr Arg Arg Ser Gly Leu Xaa Leu Arg Leu  
           145                  150                  155                  160  
 Gly

<210> 1154  
 <211> 325

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any amino acid

<400> 1154  
 Val Pro Pro Ala Val Cys Pro Ala Gly Xaa Phe Cys Gln Asn Gln Cys  
           1                  5                  10                  15  
 Phe Thr Lys Arg Gln Tyr Pro Glu Thr Lys Ile Ile Lys Thr Asp Gly  
                   20                  25                  30  
 Lys Gly Trp Gly Leu Val Ala Lys Arg Asp Ile Arg Lys Gly Glu Phe  
                   35                  40                  45  
 Val Asn Glu Tyr Val Gly Glu Leu Ile Asp Glu Glu Glu Cys Met Ala  
           50                  55                  60  
 Arg Ile Lys His Ala His Glu Asn Asp Ile Thr His Phe Tyr Met Leu  
           65                  70                  75                  80  
 Thr Ile Asp Lys Asp Arg Ile Ile Asp Ala Gly Pro Lys Gly Asn Tyr  
                   85                  90                  95  
 Ser Arg Phe Met Asn His Ser Cys Gln Pro Asn Cys Glu Thr Leu Lys  
                   100                  105                  110  
 Trp Thr Val Asn Gly Asp Thr Arg Val Gly Leu Phe Ala Val Cys Asp  
           115                  120                  125  
 Ile Pro Ala Gly Thr Glu Leu Xaa Phe Asn Tyr Asn Leu Asp Cys Leu  
           130                  135                  140  
 Gly Asn Glu Lys Thr Val Cys Arg Cys Gly Ala Ser Asn Cys Ser Gly  
           145                  150                  155                  160  
 Phe Leu Gly Asp Arg Pro Lys Thr Ser Thr Thr Leu Ser Ser Glu Glu  
                   165                  170                  175  
 Lys Gly Lys Lys Thr Lys Lys Lys Thr Xaa Arg Arg Arg Ala Lys Gly  
                   180                  185                  190  
 Glu Gly Lys Arg Gln Ser Glu Asp Glu Cys Phe Arg Cys Gly Asp Gly

195                      200                      205  
 Gly Gln Leu Val Leu Cys Asp Arg Lys Phe Cys Thr Lys Ala Tyr His  
     210                      215                      220  
 Leu Ser Cys Leu Gly Leu Gly Lys Arg Xaa Phe Gly Lys Trp Glu Cys  
     225                      230                      235                      240  
 Pro Trp His His Cys Asp Val Cys Gly Lys Pro Ser Thr Ser Phe Cys  
                     245                      250                      255  
 His Leu Cys Pro Asn Ser Phe Cys Lys Glu His Gln Asp Gly Thr Ala  
                     260                      265                      270  
 Phe Ser Cys Thr Pro Asp Gly Arg Ser Tyr Cys Cys Glu His Asp Leu  
                     275                      280                      285  
 Gly Ala Ala Ser Val Arg Ser Thr Lys Thr Glu Lys Pro Pro Pro Glu  
                     290                      295                      300  
 Pro Gly Lys Pro Lys Gly Lys Arg Arg Arg Arg Arg Gly Trp Arg Arg  
     305                      310                      315                      320  
 Val Thr Glu Gly Lys  
                     325

<210> 1155  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1155  
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
     1                      5                      10                      15  
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
                     20                      25                      30  
 Val Ser Gln Lys Arg Gly His Ile  
                     35                      40

<210> 1156  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1156  
 Met Gln Gly Lys Phe Met Lys Val Gln Val Tyr Arg Phe Leu Lys Tyr  
     1                      5                      10                      15  
 Leu Leu Met Leu Leu Cys Met Phe Val Asn Arg Gly Met Ser Lys Asp  
                     20                      25                      30  
 Ser Thr Lys Lys Pro Gly Gln Glu Lys Leu Lys Val Ser Leu Gly Ser  
                     35                      40                      45  
 Ile Leu Asn Met Lys Ser Gln Arg Pro Leu Ser Trp Cys

50

55

60

&lt;210&gt; 1157

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1157

```

Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
 1             5             10             15

Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
      20             25             30

Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
      35             40             45

Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
      50             55             60

Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr
      65             70             75             80

Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
      85             90             95

Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His
      100             105             110

Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
      115             120             125

Tyr Ile His
      130

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&lt;210&gt; 1158

&lt;211&gt; 173

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1158

```

Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1             5             10             15

Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
      20             25             30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
      35             40             45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
      50             55             60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
      65             70             75             80

Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala

```

	85		90		95
Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly					
	100		105		110
Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly					
	115		120		125
Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser					
	130		135		140
Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr					
	145		150		155
					160
Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys					
	165		170		

<210> 1159  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1159
Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
1 5 10 15
Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
20 25 30
Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
35 40 45

<210> 1160  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 1160
Ile Tyr Gln His Phe Ser Leu Trp Leu Gly
1 5 10

<210> 1161  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 1161
Met Phe Lys Met
1

&lt;210&gt; 1162

&lt;211&gt; 201

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1162

```

Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe
 1             5             10             15

Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Leu Ser
      20             25             30

Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His
      35             40             45

Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe
      50             55             60

Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys
      65             70             75             80

Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys
      85             90             95

Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe
      100             105             110

Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu
      115             120             125

Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val
      130             135             140

Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe
      145             150             155             160

Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu
      165             170             175

Asn Glu Ile Asp Glu Leu Leu Gln Glu Phe Glu Glu Lys Ser Gly Arg
      180             185             190

Thr Phe Leu His Thr Val Cys Phe Tyr
      195             200

```

&lt;210&gt; 1163

&lt;211&gt; 392

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (251)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1163

```

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
 1             5             10             15

```



Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser  
                   20                  25                  30  
 Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr  
                   35                  40                  45  
 Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile  
           50                  55                  60  
 Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu  
   65                  70                  75                  80  
 Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly  
                   85                  90                  95  
 Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser  
           100                  105                  110  
 Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro  
           115                  120                  125  
 Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro  
   130                  135                  140  
 Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu  
   145                  150                  155                  160  
 Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly  
           165                  170                  175  
 Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
           180                  185                  190  
 Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His  
           195                  200                  205  
 Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro  
   210                  215                  220  
 Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His  
   225                  230                  235                  240  
 Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala  
           245                  250                  255  
 Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly  
           260                  265                  270  
 Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly  
           275                  280                  285  
 Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
   290                  295                  300  
 Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile  
   305                  310                  315                  320  
 Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val  
           325                  330                  335  
 Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr

340                                      345                                      350  
 Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala  
                  355                                      360                                      365  
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val  
                  370                                      375                                      380  
 Leu Glu Gly Phe Ile Lys Gly Arg  
 385                                      390

<210> 1164  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 1164  
 Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln Met Phe Phe Gly Ile  
       1                                      5                                      10                                      15  
 Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys Gly Asp Leu Val Phe  
                  20                                      25                                      30  
 Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met Thr Gly Tyr Trp Leu  
                  35                                      40                                      45  
 Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe Ile Lys Gly Arg  
                  50                                      55                                      60

<210> 1165  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1165  
 Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys  
       1                                      5                                      10                                      15  
 Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe  
                  20                                      25                                      30  
 Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu  
                  35                                      40                                      45  
 Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val  
                  50                                      55                                      60  
 His Gly Lys Tyr Ser  
 65

<210> 1166  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1166

Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys  
 1 5 10 15

Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile  
 20 25 30

Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro  
 35 40 45

Gln Tyr Phe Pro  
 50

&lt;210&gt; 1167

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1167

Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asp Thr Gln  
 1 5 10 15

Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu  
 20 25 30

Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val  
 35 40 45

Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu  
 50 55 60

Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe  
 65 70 75 80

Val Tyr Val Leu Lys Gln  
 85

&lt;210&gt; 1168

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1168

Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys  
 1 5 10 15

Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly

20                      25                      30  
 Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu  
                  35                      40                      45  
 Phe Leu Leu Cys Val Trp  
                  50

<210> 1169  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1169  
 Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys  
   1                      5                      10                      15  
 Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly  
                  20                      25                      30  
 Lys Glu Lys Lys Lys Leu Leu Phe Ile Phe Thr Phe Phe Gln His  
                  35                      40                      45

<210> 1170  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1170  
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu  
   1                      5                      10                      15  
 Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro  
                  20                      25                      30  
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg  
                  35                      40                      45  
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Lys Leu Leu Gly Gln  
                  50                      55                      60  
 Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro  
   65                      70                      75                      80  
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly  
                  85                      90                      95  
 Leu Ala Arg Trp Met Val  
                  100

<210> 1171  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1171

Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser  
 1 5 10 15

Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu  
 20 25 30

Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln  
 35 40 45

Arg Arg Ser His Cys  
 50

&lt;210&gt; 1172

&lt;211&gt; 472

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1172

Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser  
 1 5 10 15

Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr  
 20 25 30

Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys  
 35 40 45

Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr  
 50 55 60

Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly  
 65 70 75 80

Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln  
 85 90 95

Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His  
 100 105 110

Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His  
 115 120 125

Lys Ile Ala Ile Leu Gly Leu Gly Ser Ser Ile Gly Thr Pro Pro Glu  
 130 135 140

Gly Ile Thr Ala Glu Val Leu Val Val Thr Ser Phe Asp Glu Leu Gln  
 145 150 155 160

Arg Arg Ala Ser Glu Ala Arg Gly Lys Ile Val Val Tyr Asn Gln Pro  
 165 170 175

Tyr Ile Asn Tyr Ser Arg Thr Val Gln Tyr Arg Thr Gln Gly Ala Val  
 180 185 190

Glu Ala Ala Lys Val Gly Ala Leu Ala Ser Leu Ile Arg Ser Val Ala  
 195 200 205  
 Ser Phe Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp  
 210 215 220  
 Gly Val Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu  
 225 230 235 240  
 Met Met Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu  
 245 250 255  
 Lys Met Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val  
 260 265 270  
 Ala Glu Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser  
 275 280 285  
 Gly His Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly  
 290 295 300  
 Gly Gly Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu  
 305 310 315 320  
 Gly Leu Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu  
 325 330 335  
 Glu Gln Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val  
 340 345 350  
 Asn Ile Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala Gly Thr Phe  
 355 360 365  
 Leu Pro Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ile  
 370 375 380  
 Met Glu Glu Val Met Ser Leu Leu Gln Pro Leu Asn Ile Thr Gln Val  
 385 390 395 400  
 Leu Ser His Gly Glu Gly Thr Asp Ile Asn Phe Trp Ile Gln Ala Gly  
 405 410 415  
 Val Pro Gly Ala Ser Leu Leu Asp Asp Leu Tyr Lys Tyr Phe Phe Phe  
 420 425 430  
 His His Ser His Gly Asp Thr Met Thr Val Met Asp Pro Lys Gln Met  
 435 440 445  
 Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp  
 450 455 460  
 Met Glu Glu Met Leu Pro Arg Ser  
 465 470

&lt;210&gt; 1173

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1173

Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp Gly Val  
 1 5 10 15  
 Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu Met Met  
 20 25 30  
 Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu Lys Met  
 35 40 45  
 Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val Ala Glu  
 50 55 60  
 Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser Gly His  
 65 70 75 80  
 Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly Gly Gly  
 85 90 95  
 Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu  
 100 105 110  
 Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu Glu Gln  
 115 120 125  
 Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val Asn Ile  
 130 135 140  
 Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala Gly Thr Phe Leu Pro  
 145 150 155 160  
 Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ser Trp Arg  
 165 170 175  
 Arg Leu

&lt;210&gt; 1174

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1174

Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
 1 5 10 15  
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
 20 25 30  
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
 35 40 45  
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala

50                      55                      60  
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu  
 65                      70                      75                      80  
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val  
 85                      90                      95  
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe  
 100                      105                      110  
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe  
 115                      120                      125  
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr Xaa Cys Ser  
 130                      135                      140  
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val  
 145                      150                      155                      160  
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Leu Leu  
 165                      170                      175  
 Gln Gly Trp Lys Asp Ser Ala Lys Gln Gly Gly Ser Pro Gln Asn Ser  
 180                      185                      190  
 Arg Ser Pro Gln Leu Gln Lys  
 195

<210> 1175  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 1175  
 Ser Trp  
 1

<210> 1176  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 1176  
 Cys Leu Glu Thr Phe Trp Ser Leu Tyr Leu Gly Gly Trp Gly Met Val  
 1                      5                      10                      15  
 Gly Cys Val Cys Tyr Trp His Pro Val Asn Arg Ser Gln Gly Cys Arg  
 20                      25                      30

<210> 1177  
 <211> 283



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1177

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Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
  1           5           10           15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
          20           25           30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
          35           40           45

Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
  50           55           60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
  65           70           75           80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
          85           90           95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
          100          105          110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
          115          120          125

Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
          130          135          140

Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
          145          150          155          160

Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
          165          170          175

Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
          180          185          190

Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Ala Ser Phe Val Glu
          195          200          205

Leu Gly Ala Asn Pro Ala Tyr His Glu Leu Leu Leu Thr Val Leu Trp
          210          215          220

Tyr Gly Val Val His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
          225          230          235          240

Met Phe Glu Val Cys Gln His Met Pro Leu Leu Val Ser Ile Ile Met
          245          250          255

Ile Phe Phe Phe Leu Arg Arg Arg Arg Glu Phe Phe Leu Ile Lys Arg
          260          265          270

Leu Cys Ile Ser Lys Lys Lys Lys Lys Lys Lys
          275          280

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&lt;210&gt; 1178

<211> 286  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (204)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (228)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (264)  
 <223> Xaa equals any amino acid

<220>  
 <221> SITE  
 <222> (271)  
 <223> Xaa equals any amino acid

<400> 1178

Met	Tyr	Leu	Ser	Ala	Leu	Gln	Ser	Leu	Ile	Pro	Ser	Leu	Phe	Ala	Leu	1	5	10	15
Val	Leu	Gln	Asn	Ala	Pro	Phe	Ser	Ser	Lys	Ala	Lys	Leu	His	Gly	Glu	20	25	30	
Val	Pro	Gln	Ile	Glu	Val	Thr	Arg	Phe	Pro	Arg	Pro	Met	Ser	Pro	Leu	35	40	45	
Gln	Asp	Val	Ser	Thr	Ile	Ile	Gly	Ser	Arg	Glu	Gln	Leu	Ala	Val	Leu	50	55	60	
Leu	Gln	Leu	Tyr	Asp	Tyr	Gln	Leu	Glu	Gln	Glu	Gly	Thr	Thr	Gly	Trp	65	70	75	80
Glu	Ser	Leu	Leu	Trp	Val	Val	Asn	Gln	Leu	Leu	Pro	Gln	Leu	Ile	Glu	85	90	95	
Ile	Val	Gly	Lys	Ile	Asn	Val	Thr	Ser	Thr	Ala	Cys	Val	His	Glu	Phe	100	105	110	
Ser	Arg	Phe	Phe	Trp	Arg	Leu	Cys	Arg	Thr	Phe	Gly	Lys	Ile	Phe	Thr	115	120	125	
Asn	Thr	Lys	Val	Lys	Pro	Gln	Phe	Gln	Glu	Ile	Leu	Arg	Leu	Ser	Glu	130	135	140	
Glu	Asn	Ile	Asp	Ser	Ser	Ala	Gly	Asn	Gly	Val	Leu	Thr	Lys	Ala	Thr	145	150	155	160
Val	Pro	Ile	Tyr	Ala	Thr	Gly	Val	Leu	Thr	Cys	Tyr	Ile	Gln	Glu	Glu				

	165		170		175
Asp Arg Lys	Leu Leu Val Gly Phe	Leu Glu Asp Val Met Thr	Leu Leu		
	180	185	190		
Ser Leu Ser	His Ala Pro Leu Asp	Ser Leu Lys Xaa Ser	Phe Val Glu		
	195	200	205		
Leu Gly Ala	Asn Gln Ala Tyr His	Glu Leu Leu Leu Thr	Val Leu Xaa		
	210	215	220		
Tyr Gly Val	Xaa His Thr Ser Ala	Leu Val Arg Cys Thr	Ala Ala Arg		
	225	230	235	240	
Met Phe Glu	Leu Leu Val Lys Gly	Val Asn Glu Thr	Leu Val Ala	Gln	
	245	250	255		
Arg Val Val	Pro Ala Leu His Xaa	Leu Ser Pro Val	Asp Pro Xaa	Asn	
	260	265	270		
Leu Cys Gln	Asp Cys His Asn Phe	Gln Pro Leu Gly	Leu Phe		
	275	280	285		

&lt;210&gt; 1179

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1179

Met Gln Ala	Pro Leu Gln Asp Cys Gly	Arg Ser Val Ser	Leu Arg Leu
1	5	10	15

Ala Cys Val	Leu Ala Pro Leu Thr Thr	Ser Ser Arg Gly	Cys His Leu
20	25	30	

Gln Leu Pro	Gln Asp Lys Gly Lys	Ala Arg Xaa Asp	Ser
35	40	45	

&lt;210&gt; 1180

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1180

Met Gly Ile	Leu Leu Gly Leu Leu	Leu Leu Gly His	Leu Thr Val Asp
1	5	10	15

Thr Tyr Gly	Arg Pro Ile Leu Glu Val	Pro Glu Ser Val	Thr Gly Pro
20	25	30	

Trp Lys Gly	Asp Val Asn Leu Pro	Cys Thr Tyr Asp	Pro Leu Gln Gly
35	40	45	

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
 50 55 60  
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
 65 70 75 80  
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
 85 90 95  
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
 100 105 110  
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
 115 120 125  
 Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys  
 130 135 140  
 Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr  
 145 150 155 160  
 Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr  
 165 170 175  
 Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala  
 180 185 190  
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala  
 195 200 205  
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu  
 210 215 220  
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met  
 225 230 235 240  
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser  
 245 250 255  
 Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu  
 260 265 270  
 Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp  
 275 280 285  
 Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val  
 290 295 300  
 Cys  
 305

&lt;210&gt; 1181

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1181

Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr

1                      5                      10                      15  
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe  
                          20                                      25                                      30  
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln  
                          35                                      40                                      45  
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln  
                          50                                      55                                      60  
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly  
                          65                                      70                                      75                                      80  
 Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val  
    85                                      90                                      95  
 Gln

<210> 1182  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1182  
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly  
                          1                                      5                                      10                                      15  
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu  
    20                                      25                                      30  
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser  
    35                                      40                                      45  
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Arg Leu Pro  
    50                                      55                                      60  
 Gln His Arg Pro Asp Leu Leu Val  
    65                                      70

<210> 1183  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens

<400> 1183  
 Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala  
                          1                                      5                                      10                                      15  
 Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro  
    20                                      25                                      30  
 Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val  
    35                                      40                                      45  
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile

50                      55                      60  
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr  
 65                      70                      75                      80  
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe  
 85                      90                      95  
 Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile  
 100                      105                      110  
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu  
 115                      120                      125  
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu  
 130                      135                      140  
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe  
 145                      150                      155                      160  
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn  
 165                      170                      175  
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp  
 180                      185                      190  
 Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro  
 195                      200                      205  
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser  
 210                      215

&lt;210&gt; 1184

&lt;211&gt; 219

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (197)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1184

Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala  
 1                      5                      10                      15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro  
 20                      25                      30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val  
 35                      40                      45

Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile  
 50                      55                      60

Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr  
 65 70 75 80  
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe  
 85 90 95  
 Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile  
 100 105 110  
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu  
 115 120 125  
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu  
 130 135 140  
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe  
 145 150 155 160  
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn  
 165 170 175  
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp  
 180 185 190  
 Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro  
 195 200 205  
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser  
 210 215

&lt;210&gt; 1185

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1185

Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
 1 5 10 15  
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
 20 25 30  
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Arg Ala Glu Ser  
 35 40 45  
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
 50 55 60  
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
 65 70 75 80  
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
 85 90 95  
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
 100 105 110  
 Ala Ala Leu Gly Ala Ala Ser Ala His

115

120

<210> 1186  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1186  
 Met Val Ile Ser Ile Phe Phe Ser Leu Pro Phe Ser Thr Ser Ala Tyr  
           1                  5                  10                  15  
 Thr Leu Ile Ala Pro Asn Ile Asn Arg Arg Asn Glu Ile Gln Arg Ile  
                   20                  25                  30  
 Ala Asp Arg Ser Trp Pro Thr Trp Arg Ser Gly Arg Ser Arg Thr Glu  
                   35                  40                  45  
 Leu Asn Arg Phe Thr Trp Cys Pro Asp Gly  
           50                  55

<210> 1187  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any amino acid

<400> 1187  
 Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val Ile Cys Tyr  
           1                  5                  10                  15  
 Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu Pro Trp Ala  
                   20                  25                  30  
 Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val Tyr Ser Gly  
                   35                  40                  45  
 Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met Gly Leu Thr  
           50                  55                  60  
 Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser Thr Phe Pro  
           65                  70                  75                  80  
 Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile Leu Val Phe  
                   85                  90                  95  
 Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro  
           100                  105                  110  
 Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln  
           115                  120                  125  
 Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys  
           130                  135                  140



Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu  
 145 150 155 160

Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
 165 170

<210> 1188

<211> 509

<212> PRT

<213> Homo sapiens

<400> 1188

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
 1 5 10 15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
 20 25 30

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
 35 40 45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
 50 55 60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
 65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
 85 90 95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
 100 105 110

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
 115 120 125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
 130 135 140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
 145 150 155 160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
 165 170 175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
 180 185 190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
 195 200 205

Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
 210 215 220

Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
 225 230 235 240

Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala

<400> 1189  
Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly  
1 5 10 15

Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg  
                   20                  25                  30  
 Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu  
                   35                  40                  45  
 Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu  
           50                  55                  60  
 Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg  
   65                  70                  75                  80  
 Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala  
                   85                  90                  95  
 Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu  
                  100                 105                 110  
 Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe  
          115                 120                 125  
 Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys  
   130                 135                 140  
 Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr  
  145                 150                 155                 160  
 Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala  
                  165                 170                 175  
 Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu  
          180                 185                 190  
 Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln  
   195                 200                 205  
 Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu  
   210                 215                 220  
 Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val  
  225                 230                 235                 240  
 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val  
          245                 250                 255  
 Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly  
   260                 265                 270  
 Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala  
   275                 280                 285  
 Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser  
   290                 295                 300  
 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg  
  305                 310                 315                 320  
 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala  
          325                 330                 335  
 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala

340 345 350  
 Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys  
 355 360 365  
 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu  
 370 375 380  
 Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile  
 385 390 395 400  
 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro  
 405 410 415  
 Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala  
 420 425 430  
 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile  
 435 440 445  
 Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn  
 450 455 460  
 Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro  
 465 470 475 480  
 Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln  
 485 490 495  
 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg  
 500 505 510  
 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro  
 515 520 525  
 Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro  
 530 535 540  
 Glu Lys Glu Lys Lys Lys Lys Lys Lys  
 545 550

&lt;210&gt; 1190

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1190

Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly  
 1 5 10 15

Pro Gln Gly Pro Gly Pro Ser  
 20

&lt;210&gt; 1191

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (166)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1191

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Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu
  1           5           10           15
Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val
           20           25           30
Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly
           35           40           45
Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu
           50           55           60
Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly
           65           70           75           80
Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys
           85           90           95
Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala
           100          105          110
Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys
           115          120          125
Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala
           130          135          140
Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp
           145          150          155          160
Gln Ala Gly Lys Glu Xaa Glu Lys Leu Gly Pro Ser Ala His His Ala
           165          170          175
Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn
           180          185          190
Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser
           195          200          205
Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser
           210          215          220
Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg
           225          230          235          240
Ser Val Ala Asn Ile Met Pro
           245

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&lt;210&gt; 1192

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1192

Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
 1 5 10 15

Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
 20 25 30

Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
 35 40

&lt;210&gt; 1193

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1193

Leu Leu Leu Ser Ser Phe  
 1 5

&lt;210&gt; 1194

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1194

Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Val Val Ala  
 1 5 10 15

Val Gln Leu Cys Tyr Met Lys Gln Pro  
 20 25

&lt;210&gt; 1195

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1195

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
 1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
 20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
 35 40 45

Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly  
 50 55 60

Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp  
 65 70 75 80

Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met  
 85 90 95

Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser  
 100 105 110  
 Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp  
 115 120 125  
 Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro  
 130 135 140  
 Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln  
 145 150 155 160  
 Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys  
 165 170 175  
 Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp  
 180 185 190  
 Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys  
 195 200 205  
 Glu Tyr Asn Val Tyr Gln His Asp Glu Leu  
 210 215

<210> 1196  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1196  
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
 1 5 10 15  
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
 20 25 30  
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
 35 40 45  
 Gly Asp Leu Leu Lys Cys Pro Leu  
 50 55

<210> 1197  
 <211> 606  
 <212> PRT  
 <213> Homo sapiens

<400> 1197  
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro  
 1 5 10 15  
 Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly  
 20 25 30  
 Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys  
 35 40 45

Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu  
 50 55 60  
 Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly  
 65 70 75 80  
 Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg  
 85 90 95  
 Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser  
 100 105 110  
 Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr  
 115 120 125  
 Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr  
 130 135 140  
 Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp  
 145 150 155 160  
 Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe  
 165 170 175  
 Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu  
 180 185 190  
 Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp  
 195 200 205  
 Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp  
 210 215 220  
 Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile  
 225 230 235 240  
 Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile  
 245 250 255  
 Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu  
 260 265 270  
 Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn  
 275 280 285  
 Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg  
 290 295 300  
 Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu  
 305 310 315 320  
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His  
 325 330 335  
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr  
 340 345 350  
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly  
 355 360 365



Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser  
 370 375 380  
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala  
 385 390 395 400  
 Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu  
 405 410 415  
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile  
 420 425 430  
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys  
 435 440 445  
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val  
 450 455 460  
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val  
 465 470 475 480  
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr  
 485 490 495  
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly  
 500 505 510  
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp  
 515 520 525  
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu  
 530 535 540  
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met  
 545 550 555 560  
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr  
 565 570 575  
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser  
 580 585 590  
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp  
 595 600 605

&lt;210&gt; 1198

&lt;211&gt; 305

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1198

Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala  
 1 5 10 15  
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu  
 20 25 30  
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg  
 35 40 45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu  
 50 55 60  
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys  
 65 70 75 80  
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe  
 85 90 95  
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu  
 100 105 110  
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala  
 115 120 125  
 Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys  
 130 135 140  
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala  
 145 150 155 160  
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val  
 165 170 175  
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu  
 180 185 190  
 Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu  
 195 200 205  
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu  
 210 215 220  
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu  
 225 230 235 240  
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile  
 245 250 255  
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg  
 260 265 270  
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg  
 275 280 285  
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser  
 290 295 300  
 Leu  
 305

&lt;210&gt; 1199

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1199

Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly  
 1 5 10 15

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr  
 20 25 30

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala  
 35 40 45

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp  
 50 55 60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly  
 65 70 75 80

Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp  
 85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys  
 100 105 110

Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa  
 115 120 125

&lt;210&gt; 1200

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (136)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (138)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1200

Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly  
 1 5 10 15

Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala  
 20 25 30

Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu  
 35 40 45

Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val

50                      55                      60  
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro  
 65                      70                      75                      80  
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His  
 85                      90                      95  
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val  
 100                      105                      110  
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys  
 115                      120                      125  
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu  
 130                      135                      140

<210> 1201

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (100)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (109)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (116)

<223> Xaa equals any amino acid

<400> 1201

Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
 1                      5                      10                      15

Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
 20                      25                      30

Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
 35                      40                      45

Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
 50                      55                      60

Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
 65                      70                      75                      80

Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr

85 90 95  
 Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly  
 100 105 110  
 His Trp Ala Xaa Lys Thr Ser Trp Cys Lys  
 115 120  
  
 <210> 1202  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any amino acid  
  
 <220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any amino acid  
  
 <400> 1202  
 Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala  
 1 5 10 15  
 Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys  
 20 25 30  
 Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val  
 35 40 45  
 Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln  
 50 55 60  
 Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg  
 65 70 75 80  
 Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe  
 85 90 95  
 Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro  
 100 105 110  
 Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser  
 115 120 125  
 Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu  
 130 135 140  
 Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly  
 145 150 155 160  
 Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met  
 165 170 175  
 Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser  
 180 185 190

Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala  
 195 200 205

Val Ser Leu Ser His Ile Arg Asn  
 210 215

<210> 1203

<211> 127

<212> PRT

<213> Homo sapiens

<400> 1203

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys  
 1 5 10 15

Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp  
 20 25 30

Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln  
 35 40 45

Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp  
 50 55 60

Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr  
 65 70 75 80

Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu  
 85 90 95

Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn  
 100 105 110

Lys Ile Ser Asp Gly Leu Lys Glu Lys Glu Pro His Pro Ser Pro  
 115 120 125

<210> 1204

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any amino acid

<400> 1204

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys  
 1 5 10 15

Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp  
 20 25 30

Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln  
 35 40 45

Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp  
 50 55 60  
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr  
 65 70 75 80  
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu  
 85 90 95  
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn  
 100 105 110  
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Xaa Ser Met  
 115 120 125  
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly  
 130 135 140  
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Leu Pro  
 145 150 155 160  
 Gly Ser Leu Gln

<210> 1205  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1205  
 Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys  
 1 5 10 15  
 Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His  
 20 25 30  
 Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val  
 35 40 45  
 Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu  
 50 55 60  
 Ala Lys Met Ala Lys Ala Trp Gly Lys Pro Val Gln Ile  
 65 70 75

<210> 1206  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any amino acid

<400> 1206  
 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro

1	5	10	15
Ala Leu Ala	Leu Tyr Val Phe Thr Ile	Ala Xaa Glu Pro Leu Arg Ile	
	20	25	30
Ile Phe Leu	Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile		
	35	40	45
Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp			
	50	55	60
Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val			
	65	70	75
Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys			
	85	90	95
Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser			
	100	105	110
Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser			
	115	120	125
Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly			
	130	135	140
Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala			
	145	150	155
Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val			
	165	170	175
Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val			
	180	185	190
Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr			
	195	200	205
Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly			
	210	215	220
Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu			
	225	230	235
Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser			
	245	250	255

Arg

&lt;210&gt; 1207

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any amino acid



&lt;400&gt; 1207

Arg Xaa Pro Ile Phe Ile Gly Glu Asn Phe Tyr Pro Pro Val Arg Gly  
 1 5 10 15  
 Arg Val Gly Met Ser Ala Cys Gln Gly Gly Gly Gly Gly Gly Gly Gly  
 20 25 30  
 Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
 35 40 45  
 Gly Gly Gly Gly Val Asp Lys Leu Pro Cys Leu Thr Met Cys Trp Cys  
 50 55 60  
 Gly Asn Gly Ala Gln Pro Ala Arg Leu Lys Val Asp Gly Ile Pro Thr  
 65 70 75 80  
 Gly Gln Arg Lys Ser Tyr Ala Asp Thr Pro Ala Trp Pro Gly  
 85 90

&lt;210&gt; 1208

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1208

Pro Gly Asn Glu Val Thr Asp Gly Gln Pro Arg Gln Pro Leu Arg Arg  
 1 5 10 15  
 Leu Arg Leu Pro Cys Gly Ala Ser Leu Xaa Arg Xaa Pro Ala Ser Pro  
 20 25 30  
 Ser Asp Ala Ile Gln Arg Ala Leu Pro Gly Arg Lys Leu Pro Arg Trp  
 35 40 45  
 Asn Ala Ser Pro Glu Gln Arg Val Ala Val Pro Cys Gly Gly Leu Thr  
 50 55 60  
 Gln Trp Leu Asn Thr Gly Lys Glu Leu Ala Leu Gly Val Arg Thr Ser  
 65 70 75 80  
 Glu Thr

&lt;210&gt; 1209

&lt;211&gt; 60

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (17)

<223> Xaa equals any amino acid

<400> 1209

Asn Leu Xaa Cys Cys Glu Pro Leu Lys Gly Thr Glu Ile Val His Leu  
1 5 10 15

Xaa Ser Ser Asp Phe Lys Ala Val Ala Cys Arg Cys Ser Gln Leu Asn  
20 25 30

Lys Ala Leu Pro Ser Thr Thr Leu Arg Gly Phe Val Cys Gly Ser Ser  
35 40 45

Cys Tyr Ile Ser Trp Phe Pro Asn Gln Glu Thr Arg  
50 55 60

<210> 1210

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (50)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (110)

<223> Xaa equals any amino acid

<400> 1210

Met Pro Arg Cys Arg Trp Leu Ser Leu Ile Leu Leu Thr Ile Pro Leu  
1 5 10 15

Ala Leu Val Ala Arg Lys Asp Pro Lys Lys Asn Glu Thr Gly Val Leu  
20 25 30

Arg Lys Leu Lys Pro Val Asn Ala Phe Xaa Cys Gln Arg Gly Ser Ser  
35 40 45

Val Xaa Gly Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys  
50 55 60

Tyr Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr

[illegible]

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<210> 1211
<211> 38
<212> PRT
<213> Homo sapiens
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<400> 1211
Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly
  1                      5                      10                      15

Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu
      20                      25                      30

Leu Ser Leu Leu Asp Cys
    35

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```
<210> 1212
<211> 64
<212> PRT
<213> Homo sapiens
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<400> 1212
Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu
  1             5             10             15

Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala
      20             25             30

Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser
      35             40             45

Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu
  50             55             60

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```
<210> 1213
<211> 170
<212> PRT
<213> Homo sapiens
```

<400> 1213  
Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
                   20                  25                  30  
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
                   35                  40                  45  
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
                   50                  55                  60  
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
                   65                  70                  75                  80  
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
                   85                  90                  95  
 Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
                   100                  105                  110  
 Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
                   115                  120                  125  
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
                   130                  135                  140  
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
                   145                  150                  155                  160  
 Ala Val His Pro Thr Gly Thr Lys Ala Leu  
                   165                  170

&lt;210&gt; 1214

&lt;211&gt; 170

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1214

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
                   1                  5                  10                  15  
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
                   20                  25                  30  
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
                   35                  40                  45  
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
                   50                  55                  60  
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
                   65                  70                  75                  80  
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
                   85                  90                  95  
 Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
                   100                  105                  110  
 Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln

115                      120                      125  
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
 130                      135                      140  
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
 145                      150                      155                      160  
 Ala Val His Pro Thr Gly Thr Lys Ala Leu  
                     165                      170

<210> 1215  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1215  
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
 1                      5                      10                      15  
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
                     20                      25                      30  
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu  
                     35                      40                      45  
 Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
                     50                      55                      60

<210> 1216  
 <211> 322  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any amino acid

<400> 1216  
 Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala  
 1                      5                      10                      15  
 Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Asp Leu Ile His  
                     20                      25                      30  
 Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala  
                     35                      40                      45  
 Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys  
                     50                      55                      60  
 Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu  
                     65                      70                      75                      80  
 His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr  
                     85                      90                      95

Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala  
 100 105 110  
 Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser  
 115 120 125  
 Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser  
 130 135 140  
 Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln  
 145 150 155 160  
 Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg  
 165 170 175  
 Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp  
 180 185 190  
 Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu  
 195 200 205  
 Gly Gln Lys Leu Gly Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser  
 210 215 220  
 Pro Ala Gln Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu  
 225 230 235 240  
 Ile Asp Glu Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp  
 245 250 255  
 Gly Gly Arg Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp  
 260 265 270  
 Ile Arg Leu Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser  
 275 280 285  
 Phe Ile Leu Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser  
 290 295 300  
 Gln Thr Leu Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg  
 305 310 315 320  
 Leu Thr

&lt;210&gt; 1217

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1217

Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu  
 1 5 10

&lt;210&gt; 1218

&lt;211&gt; 362

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (307)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1218

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
 20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
 35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
 50 55 60

Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
 65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
 85 90 95

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
 100 105 110

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
 115 120 125

Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
 130 135 140

His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
 145 150 155 160

Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
 165 170 175

Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
 180 185 190

Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly  
 195 200 205

Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly  
 210 215 220

Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro  
 225 230 235 240

Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro  
 245 250 255

Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly  
 260 265 270

Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala

275                      280                      285  
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp  
 290                      295                      300  
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly  
 305                      310                      315                      320  
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu  
 325                      330                      335  
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly  
 340                      345                      350  
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu  
 355                      360

&lt;210&gt; 1219

&lt;211&gt; 415

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (338)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1219

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
 1                      5                      10                      15  
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
 20                      25                      30  
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
 35                      40                      45  
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
 50                      55                      60  
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
 65                      70                      75                      80  
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
 85                      90                      95  
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
 100                      105                      110  
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
 115                      120                      125  
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
 130                      135                      140  
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
 145                      150                      155                      160  
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr



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<400> 1220
Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser
 1              5              10              15

Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His
      20              25              30

```

Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu  
           35                          40                          45

Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu  
           50                          55                          60

Ser Val Thr Lys Thr Phe Leu  
       65                          70

<210> 1221

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any amino acid

<400> 1221

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu  
       1                          5                          10                          15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr  
           20                          25                          30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys  
           35                          40                          45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys  
       50                          55                          60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala  
       65                          70                          75                          80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile  
           85                          90                          95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg  
           100                          105                          110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly  
           115                          120                          125

Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu  
       130                          135                          140

<210> 1222

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1222

```

Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
 1             5             10             15

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
          20             25             30

Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser
          35             40             45

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
          50             55             60

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
          65             70             75             80

Ser Leu Thr Gly Tyr Val
          85

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&lt;210&gt; 1223

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1223

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Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu
 1             5             10             15

Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser
          20             25             30

Trp Pro Lys Thr Leu Val Glu Glu Gln Asn
          35             40

```

&lt;210&gt; 1224

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1224

```

Ile Asn Phe Thr Tyr Lys Arg Leu Ser Leu Asp Phe Ile Tyr Ile Tyr
 1             5             10             15

Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr
          20             25             30

Leu Lys Arg Thr Cys Ala Ser Ile Lys Gly Asn Lys Met Arg Glu Tyr
          35             40             45

Ile Ile Asp Phe Val Lys Ser Lys Tyr Leu Asn Tyr Gly Phe Ser Ile
          50             55             60

```

Phe Lys Asn Ser Cys Ser Phe Cys Thr Tyr Phe Phe  
 65 70 75

<210> 1225  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1225  
 Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser  
 1 5 10 15  
 Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser  
 20 25 30  
 His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Ser Phe Thr Tyr  
 35 40 45  
 Pro Gly Lys Gln Val Trp  
 50

<210> 1226  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 1226  
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser  
 1 5 10 15  
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu  
 20 25 30  
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu  
 35 40 45  
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu  
 50 55 60  
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys  
 65 70 75 80  
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly  
 85 90 95  
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile Leu Lys  
 100 105 110  
 Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe  
 115 120 125  
 Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala  
 130 135 140  
 Phe  
 145

<210> 1227  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 1227  
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp  
   1                  5                  10                  15  
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
                   20                  25                  30  
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg  
           35                  40                  45  
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
   50                  55                  60  
 Val Gln Lys Pro Lys Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr  
   65                  70                  75                  80  
 Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro  
                   85                  90                  95  
 Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln  
           100                  105                  110  
 Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu  
   115                  120                  125  
 Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln  
   130                  135                  140

<210> 1228  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 1228  
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp  
   1                  5                  10                  15  
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
                   20                  25                  30  
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg  
           35                  40                  45  
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
   50                  55                  60  
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr  
   65                  70                  75                  80  
 Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro  
                   85                  90                  95

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln  
                   100                  105                  110

Gly Glu Glu Arg Pro Arg Leu  
                   115

<210> 1229

<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any amino acid

<400> 1229

Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val  
   1                  5                  10                  15

Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln  
                   20                  25                  30

Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile  
                   35                  40                  45

Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala  
                   50                  55                  60

Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp  
   65                  70                  75                  80

Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser  
                   85                  90                  95

Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln  
                   100                  105                  110

Thr Ser Xaa Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala  
                   115                  120                  125

Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln  
                   130                  135                  140

Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly  
   145                  150                  155                  160

Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu  
                   165                  170                  175

Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys  
                   180                  185                  190

Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu  
                   195                  200                  205

Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met  
                   210                  215                  220

Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His  
 225 230 235 240  
 Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly  
 245 250 255  
 Asn Leu Ile Val Val Asn Ala Leu Asn Leu Pro Asp Val Phe Gly Leu  
 260 265 270  
 Val Val Leu Pro Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp  
 275 280 285  
 Val Arg Ser Val Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr  
 290 295 300  
 Ala Ser Asn Asp Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe  
 305 310 315 320  
 Arg Asp Asn Thr Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr  
 325 330 335  
 Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val  
 340 345 350  
 Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro  
 355 360 365  
 Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile  
 370 375 380  
 Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro  
 385 390 395 400  
 Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro  
 405 410 415  
 Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn  
 420 425 430  
 Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg  
 435 440 445  
 Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met  
 450 455 460

&lt;210&gt; 1230

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1230

Met Phe Val Pro Ser Cys Leu Cys Leu Arg Phe Val Val Thr Ser Leu  
 1 5 10 15  
 Leu Leu Gln Met Thr His Ser Cys Gly Gly Phe Tyr Ile Cys Val Ile  
 20 25 30  
 Phe Glu Thr Ile Leu Ser Glu Phe Lys Thr Gln Ile Gly Arg Leu Tyr  
 35 40 45

Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val  
 50 55 60  
 Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro  
 65 70 75 80  
 Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile  
 85 90 95  
 Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro  
 100 105 110  
 Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro  
 115 120 125  
 Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn  
 130 135 140  
 Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg  
 145 150 155 160  
 Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met  
 165 170

&lt;210&gt; 1231

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any amino acid

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1231

Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro  
 1 5 10 15  
 Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val  
 20 25 30  
 Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe  
 35 40 45  
 Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala  
 50 55 60  
 Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp





&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1233

```

Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1             5             10             15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
          20             25             30

Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro
          35             40             45

Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met
          50             55             60

Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly
          65             70             75             80

Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser
          85             90             95

Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu
          100            105            110

Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp
          115            120            125

Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile
          130            135            140

Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val
          145            150            155            160

Asn Leu Pro Met Cys Arg Glu Asp Asp
          165

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&lt;210&gt; 1234

&lt;211&gt; 187

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1234

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Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1             5             10             15

Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
          20             25             30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
          35             40             45

Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
          50             55             60

Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn

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65	70								75								80			
Val	Leu	Ala	Phe	Pro	Cys	Asn	Gln	Phe	Gly	Gln	Gln	Glu	Pro	Asp	Ser					
				85					90					95						
Asn	Lys	Glu	Ile	Glu	Ser	Phe	Ala	Arg	Arg	Thr	Tyr	Ser	Val	Ser	Phe					
			100					105					110							
Pro	Met	Phe	Ser	Lys	Ile	Ala	Val	Thr	Gly	Thr	Gly	Ala	His	Pro	Ala					
		115					120					125								
Phe	Lys	Tyr	Leu	Ala	Gln	Thr	Ser	Gly	Lys	Glu	Pro	Thr	Trp	Asn	Phe					
	130					135					140									
Trp	Lys	Tyr	Leu	Val	Ala	Pro	Asp	Gly	Lys	Val	Val	Gly	Ala	Trp	Asp					
145					150					155					160					
Pro	Thr	Val	Ser	Val	Glu	Glu	Val	Arg	Pro	Gln	Ile	Thr	Ala	Leu	Val					
				165					170					175						
Arg	Lys	Leu	Ile	Leu	Leu	Lys	Arg	Glu	Asp	Leu										
			180					185												

<210> 1235

<211> 105

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (69)

<223> Xaa equals any amino acid

<400> 1235

Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe  
1 5 10 15

Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser  
20 25 30

Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys  
35 40 45

Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala  
50 55 60

Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser  
65 70 75 80

Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr  
85 90 95

Ser Phe Ser Val Pro Cys Arg Val Lys  
100 105

<210> 1236

<211> 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1236

Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys  
 1 5 10 15

Ala Val Leu Gly Lys Gly Leu His Ser Asp Pro Ser Arg Pro Phe Glu  
 20 25 30

His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu  
 35 40 45

Ser Lys Glu Val Leu Leu Lys Lys Lys Lys Lys Arg  
 50 55 60

&lt;210&gt; 1237

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any amino acid

&lt;400&gt; 1237

Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe Asn Met Ile Leu  
 1 5 10 15

Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe Val Trp Ala Ala  
 20 25 30

His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg Tyr Pro Thr Thr  
 35 40 45

Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu Ile Ser Met Phe  
 50 55 60

Gly Gly Val Met Val Xaa Val Phe Gly Ile Thr Phe Pro Leu Leu Leu  
 65 70 75 80

Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys Asn Lys Leu  
 85 90 95

Glu Asn Lys Met Glu Gly  
 100

&lt;210&gt; 1238

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1238

Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro  
 1 5 10 15

Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp  
                   20                  25                  30  
 Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu  
                   35                  40                  45  
 Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe  
                   50                  55                  60  
 Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe  
                   65                  70                  75                  80  
 Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg  
                   85                  90                  95  
 Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu  
                   100                  105                  110  
 Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe  
                   115                  120                  125  
 Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu  
                   130                  135                  140  
 Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr  
                   145                  150                  155                  160  
 Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile  
                   165                  170                  175  
 Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu  
                   180                  185

&lt;210&gt; 1239

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1239

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
                   1                  5                  10                  15  
 Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
                   20                  25                  30  
 Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
                   35                  40                  45  
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
                   50                  55                  60  
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
                   65                  70                  75                  80  
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
                   85                  90                  95  
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
                   100                  105                  110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
 115 120 125  
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
 130 135 140  
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
 145 150 155 160  
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
 165 170 175  
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
 180 185 190  
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
 195 200 205  
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
 210 215 220  
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
 225 230 235 240  
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
 245 250 255  
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe  
 260 265 270  
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro  
 275 280 285  
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His  
 290 295 300  
 Lys Ser Ser Phe Val Ile  
 305 310

&lt;210&gt; 1240

&lt;211&gt; 310

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1240

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
 1 5 10 15  
 Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
 20 25 30  
 Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
 35 40 45  
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
 50 55 60  
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe

65                                      70                                      75                                      80  
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
    85                                      90                                      95  
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
    100                                      105                                      110  
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
    115                                      120                                      125  
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
    130                                      135                                      140  
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
    145                                      150                                      155                                      160  
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
    165                                      170                                      175  
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
    180                                      185                                      190  
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
    195                                      200                                      205  
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
    210                                      215                                      220  
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
    225                                      230                                      235                                      240  
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
    245                                      250                                      255  
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe  
    260                                      265                                      270  
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro  
    275                                      280                                      285  
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His  
    290                                      295                                      300  
 Lys Ser Ser Phe Val Ile  
    305                                      310

&lt;210&gt; 1241

&lt;211&gt; 3471

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1241

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&lt;210&gt; 1242

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1242

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&lt;210&gt; 1243

&lt;211&gt; 15090

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1243

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1245

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&lt;400&gt; 1246

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1248

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&lt;210&gt; 1249

&lt;211&gt; 5536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1249

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&lt;213&gt; Homo sapiens

&lt;400&gt; 1250

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1251

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1253

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1254

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 1272

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 1279

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

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&lt;210&gt; 1286

&lt;211&gt; 2971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1286

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1287

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1291

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1293

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&lt;212&gt; DNA

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<220>

<221> misc\_feature

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&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1304

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&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1305

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&lt;210&gt; 1306

&lt;211&gt; 222

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1306

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&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1307

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&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1308

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&lt;210&gt; 1309

&lt;211&gt; 1854

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1309

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1313

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1314

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&lt;211&gt; 2129

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1315

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&lt;211&gt; 2132

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1316

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1317

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1318

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&lt;400&gt; 1319

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&lt;210&gt; 1320

&lt;211&gt; 2649

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1320

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&lt;210&gt; 1321

&lt;211&gt; 190

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1321

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1322

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1323

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1399

<212> DNA

<213> Homo sapiens

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<211> 788

<212> DNA

<213> Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 1330

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&lt;213&gt; Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1344

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1351

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&lt;210&gt; 1352

&lt;211&gt; 236

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1352

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&lt;210&gt; 1353

&lt;211&gt; 14976

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1353

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at t t t t c t g a a	c c a g c t c g t g	g a c a g a a c c t	t t g a a t t t g g	a a a a t c c a g g	c a a t g g g c c t	960
a c t g a g c c a a	c c g c t c c g c c	c a t g c t t a a c	t g g c t t c t a g	c a c c c a t t c c	a g t t g a g t a a	1020
g t g t c c a a t c	t g t g t t c a g a	c a c c t t c a c t	g a t a g g a a a t	c a g c a c c t t t	c c c c t g c c t c	1080
t g a t t c c t g t	t t g g g t g g c a	c t g g c t g t g a	g a a a g t a c t g	c c t t t c t c a c	t g c t t a a a a c	1140
c t t t t c c a g g	a g t a t t t a t c	c a c t g g c c g g	c c t c t g t t c t	g c c g t c c a g t	c t c t a c a a a c	1200
c a g t c t g g g t	t c t c t t c c c c	a g a t a g c t t t	t t a a a t a t t t	g a a g g c a g c c	a g a t a c g t t a	1260
t c t a c c c a c a	g c c t c t c t t a	t c a t a a t t a a	a c a t g t c a c c	c t g t a g c t t c	c t g g c c g a c t	1320
c t t g t t t c c t	t a c t t c c c t c	c a g c g g g a a c	a g t g c t t g g g	g c t a a a g a g g	t t t g t a t g t g	1380
g c t c a g c c t c	c c c c a t c a t a	g g c t t t g g g g	a g g t c a c a g t	g a c a c c t g g t	t t t t c t g a a c	1440
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a g a g g a a g a g	g a a g a a g a g a	t t c a g a g c c g	g g a a c t a g a g	g a c g g c c c g g	c a g a c a t g c a	1560
g a a a g t a c g a	a t c t g c t c t g	a g g g c g g a t g	g g t a a g t a a g	a a g g t g t g g a	g t c c a c a c a g	1620
c c a g c a g a g t	c a g g c c t g a g	a g c c c a g c t t	g c t t t a a g t c	t c c t c c t c a g	a c a g a c g t g g	1680
g a a g t a a a a a	t a g c c c a g c c	c g g t g t g t t t	g c a t t c c t g a	g a a a a c a g c t	c t g t g g c t t t	1740
a a a a g g c a g t	g c a a a g a a t g	g a g g a g g t g t	t a t g g a a a c a	g t c c c t c a g c	c a t g t a g c t t	1800
g t c a t c g t t c	a a t t g g a a g t	c c t a g a a g c c	a g g a c c t t g t	c t c t c t c g t t	c a c c c a c t t a	1860
t c c t g c a c t g	c g t t t g a t g c	c a g g c a c a t t	g t a g g c a c c a	a g t a a a t g t t	t g t t g a c t t a	1920
c t g c t g g t t g	a a g g g a a c c a	t t t t a a a t a a	g a c t c g a g t c	a t t g g g t t g a	c a t g a g a g g t	1980
t a g g t c a t g t t	g g t t c t g t g t	g a g c a c c t c t	t a c c a c a g t t	g a c a c a g g a g	a g c t g c c t g t	2040
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t t t a a a t a a g	c a a c a a a t t g	a c a t t c c t t t	t c t c t g c t t a	t t t t c c g t t g	t g t a t a a a c a	2280
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c t a c c c c c t t	t c c c c a c c c c	t g g a t a t t t g	g c a a t a t c t g	g a a a c a c t t t	t g t t g g t c t g	3240
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a g a a t t a t g t	t a g g g t g a t c	a g t g a a a g c t	t t t c a a g c a t	a a g a a c t a t g	a t a a t a t a t t	3540
a g g a t a a a a t	t c c a t a g a a t	t g a a a t a g a a	a t a c a a t t t t	a a g t a g a a a a	a a t a a a a a a t	3600
g t g c t t t g a a	c t g a g t c t t a	g t c a t t a t g g	a a t c a g c c a a	g g g a a g g g a a	g g g g g t t g c a	3660
t t c c a g g c a a	g a g g a c a g c a	c a g g c a a a a g	c a c t g a g g a g	a g g a g c t t g g	g t g c a g a g t t	3720
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g t t t g a g c t t	t c t c c t t a g c	t c t g t g g a a t	g a g g c c t t a g	c c c a t c t t t c	t a a g g g a g g c	3900
c t c a g g c t c t	c t a c a g c c a c	c a t g c t a a g g	c c t g a g t g g c	c t g c t a a g a a	a g c a a a g c t t	3960
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g a t c a g t a c a	a a c t a c c c c a	a c c c c t t c c c	c c g a g a t c c c	t g c g t c t t t g	c t g g g t g g c t	4200
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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1356

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